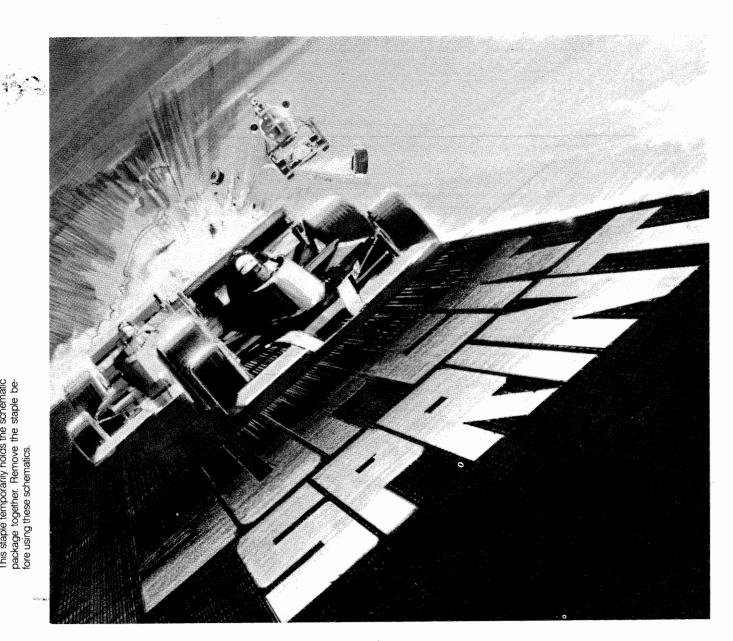
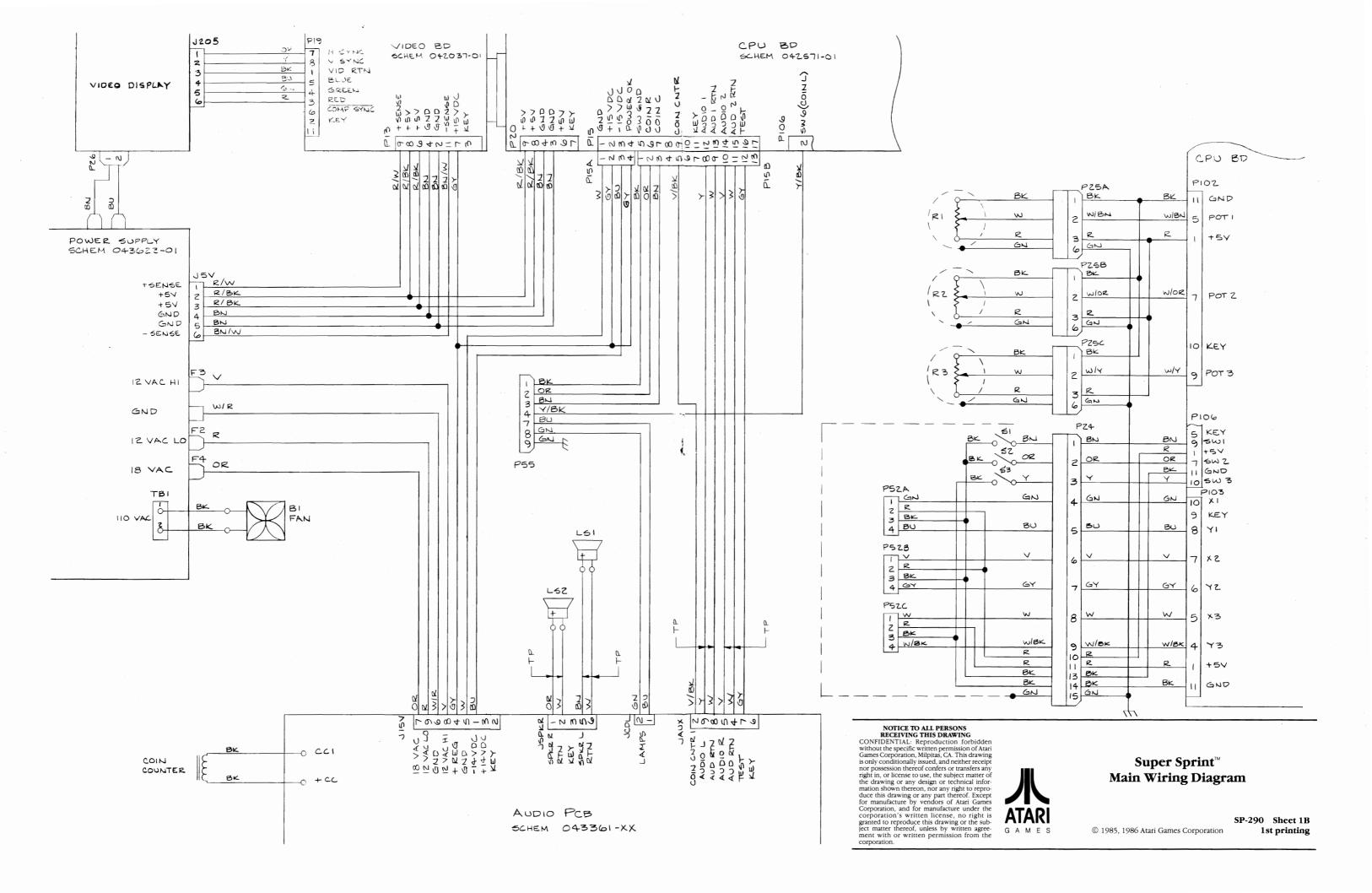
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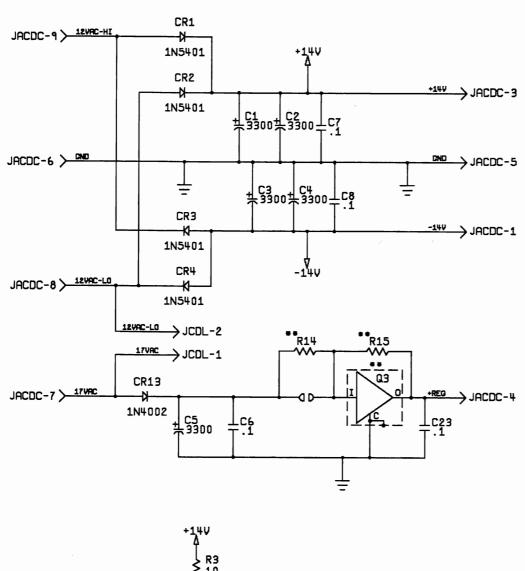
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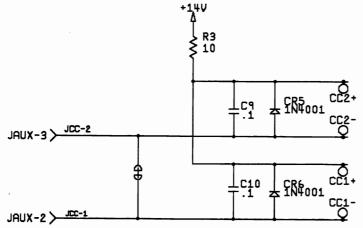


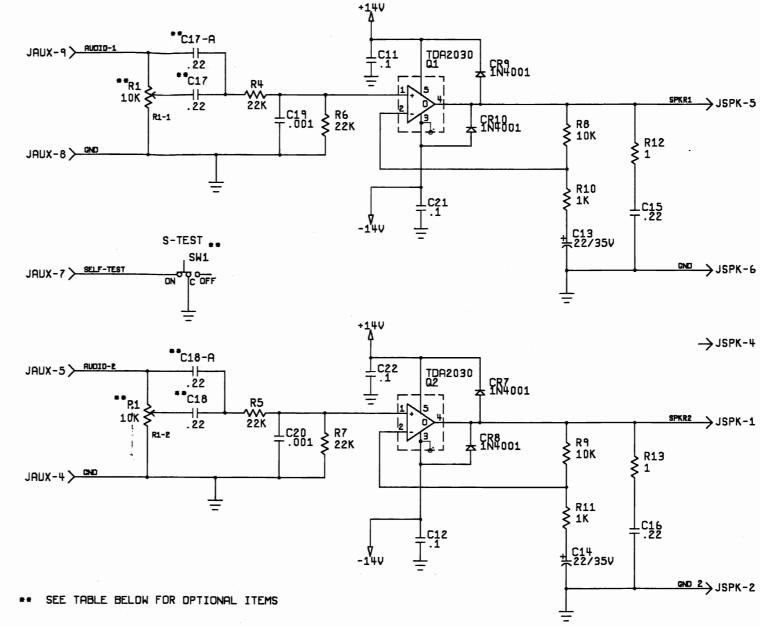
Schematic Package Supplement to the Super Sprint Operators Manual











DESIGNATION	VALUE	-01
R1 C17, C18 C17-A, C18-A SW1	10K POT .22 .22 DN/DFF	YES YES NO YES
	SEE VER COL SEE VER COL 0	LM7815 0 OHM ND

JAUX-1>

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GAMES

Super Sprint™ Audio II PCB Schematic Diagram

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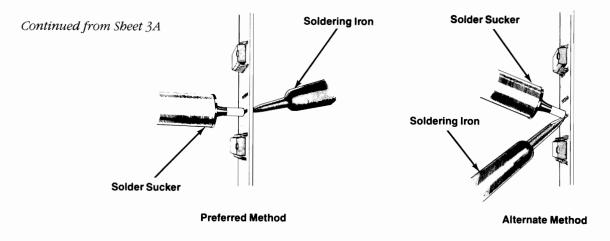


Figure 3 Removing Solder from Plated-Through Holes

Troubleshooting Static-Sensitive Devices

Certain precautions must be taken when working with static-sensitive devices, e.g., microprocessors, field-effect transistors (FET), complementary metal-oxide semiconductors (CMOS), and other large-scale integration (LSI) devices that use metal-oxide semiconductor (MOS) technology. Static charge buildup in a person's body or leakage from an improperly grounded soldering iron can cause static-sensitive devices to fail.

Before handling a static-sensitive device or a PCB with such devices attached to it, ground any static voltage that may have accumulated in your body by touching an object that has been earth grounded. A bare wire wrapped around your wrist and attached to an earth ground is effective when working extensively with static-sensitive devices. When soldering on a static-sensitive device, use a soldering iron with a properly grounded three-wire cord. (Refer to *Soldering Techniques* for a discussion of recommended soldering irons and procedures.)

A static-sensitive device can appear defective due to leakage on a PCB. Observe the precautions for grounding static voltages described in the preceding paragraph and clean both sides of the PCB with flux remover or an eraser

before replacing what can be a good static-sensitive device. For discrete FETs, clean thoroughly between the gate, drain, and source leads.

Static-sensitive devices can be packaged in conductive foam or have a protective shorting wire attached to the pins. Remove the conductive foam just prior to inserting the device into its socket or soldering it to a PCB. Remove the shorting wire only *after* the device is inserted into its socket or *after* all the leads are soldered in place.

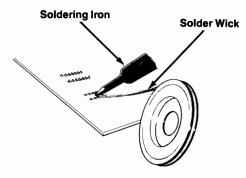


Figure 4 Removing Solder from Wire-Connection Pads

Special Section

Troubleshooting

The information on these pages discusses troubleshooting aids and techniques to help the service technician when trouble is suspected in a game. Most troubles can be located quickly by following this information. However, if problems persist, contact your Atari Games Corporation Customer Service Office for help. The addresses and phone numbers of the two offices are listed on the inside front cover of every game manual.

- NOTE

We recommend that troubleshooting and repair procedures be performed by a qualified service technician.

Troubleshooting Aids

Troubleshooting aids are provided throughout the game manual and schematic package. The following information is intended to acquaint the service technician with the portions of these documents that contain useful troubleshooting and repair information.

Assembly and Component Locations

The parts lists in Chapter 5 of the game manual illustrate the locations of assemblies and components. Printed-circuit board (PCB) illustrations aid in rapidly locating components shown on the corresponding schematic diagram(s).

Diagrams

This schematic package supplement for this manual contains schematic diagrams with component locations, active component type numbers, and electrical values.

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Troubleshooting Aids and Techniques

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Troubleshooting Techniques



A WARNING **A**



To avoid electrical shock, turn off the game power before attempting to troubleshoot this

The following troubleshooting steps are arranged in a sequence recommended for locating a defective component. The procedure begins with a check of the simple trouble possibilities and progresses to more extensive procedures for localizing the problem to an assembly or major circuit, and then to a defective component.

Check Fuses

Check for open fuses. Refer to the power supply parts list in Chapter 5 of the game manual and to the display manual for the location and rating of each fuse used in this game. Make sure that replacement fuses are the proper type and rating.

Check Power-Supply Voltages

Improper operation of all circuits usually indicates a power supply problem. Be sure that the proper line voltage is available to the power supply. Refer to the label on the power supply for its voltage rating.

Localize Trouble

Determine the trouble symptom. Use the wiring diagrams in the schematic package supplement to determine which assemblies or major circuits could cause the trouble. Perform the self-test procedure provided in the operators manual.

Visual Check

Visually check for obvious problems in the portion of the game where the trouble is suspected. For example, check for loose or defective solder connections, integrated circuits loose in their sockets, loose cable connections, broken wires, and damaged PCBs or components.

Check Individual Components

Check soldered-in passive components (e.g., resistors, capacitors, diodes) by disconnecting one end to isolate the measurement from the effects of the surrounding circuitry. Often, direct substitution is the most practical way to determine if a component is faulty. However, eliminate the possibility of some other circuit problem that could damage the substitute component.

Repair the Assembly

CAUTION ·

Soldered-in transistors and integrated circuits are difficult to remove without damaging the printed-circuit board or component. Refer to the information below that pertains to soldering and replacing integrated circuits and tran-

Repair or replace the defective part. Refer to Chapter 4 in the game manual and information in this chapter for special removal and replacement procedures. Check for proper operation of the repaired circuit.

Soldering Techniques

Follow these recommendations when removing or replacing components soldered to a PCB. Poor soldering practices can damage a PCB or heat-sensitive electrical components.

Choosing the proper soldering iron is essential before attempting to remove or replace soldered-in components. Excessive heat is a common cause of damage to a component or PCB. However, transient voltages from solder guns or improperly grounded soldering irons can also damage certain voltage-sensitive semiconductor devices. Refer to Troubleshooting Static-Sensitive Devices for more specific information.

A 15- to 27-watt pencil-tip soldering iron is recommended to avoid separating the etched circuit wiring from the board material and to avoid damaging active components. A temperature-controlled soldering station rated at 700°F with a fine cone or a very fine chisel tip can also be used.

- CAUTION -

Solder guns are not recommended for removing or replacing soldered-in components on a printed-circuit board. The added possibility for overheating and the large transient voltage induced by the solder gun could cause damage to heat- or voltage-sensitive devices.

The following additional equipment is recommended for removing and replacing soldered-in components:

- Solder Sucker-Hand-operated vacuum tool used to remove liquified solder from the PCB. We recommend the top-of-the-line Soldapullt® brand.
- Solder Wick—Resin-soaked copper braid used for removing excess solder from the lead connections on the PCB. See Removing Integrated Circuits for precautions relating to the use of a solder wick on a multilayer PCB with plated-through holes.

- Flux Remover—Non-corrosive chemical used to clean foreign material from the PCB before soldering and to remove any flux residue where components have been replaced. Also used to clean any foreign material from the PCB during preventive maintenance. Isopropyl alcohol is recommended.
- · Acid Brush-Small stiff-bristled paint or toothbrush used with flux remover to clean flux and other foreign material from the PCB.

Removing Integrated Circuits

The easiest and safest method for removing soldered-in integrated circuits (IC) from a PCB is to cut off each pin as close to the IC case as possible with a tip dyke (diagonal cutter) as shown in Figure 1.

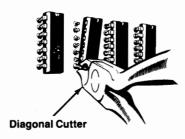


Figure 1 Removing IC (Cut-Pin Method)

Use the proper soldering iron as previously described under Soldering Techniques. Then, to avoid excessive heat buildup in one area of the PCB, apply heat directly to each pin in a random order. Remove the loosened pin with the tip of the soldering iron or a needle-nose pliers as shown in Figure 2. Allow a moment for the PCB to cool before proceeding to the next pin. Apply just enough heat to remove any stubborn pins.

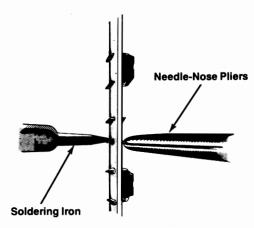


Figure 2 Removing IC Pins

For a multi-layer PCB with plated-through holes, use a solder sucker to remove the remaining solder from inside each hole as shown in Figure 3. If possible, suck the solder from the opposite side of the PCB from where the heat is

Use a solder wick to remove excess solder from around the lead connection pads on the top and/or bottom surface of the PCB as shown in Figure 4.

CAUTION -

Do not use a solder wick to remove solder from inside plated-through holes. The heat required for the solder wick to remove the solder from inside the hole could damage the

Use an integrated-circuit (IC) pulling tool to remove socketed ICs. Do not pry up on one end of the ICs, because the pins could be bent or broken.

Continued on Sheet 2B

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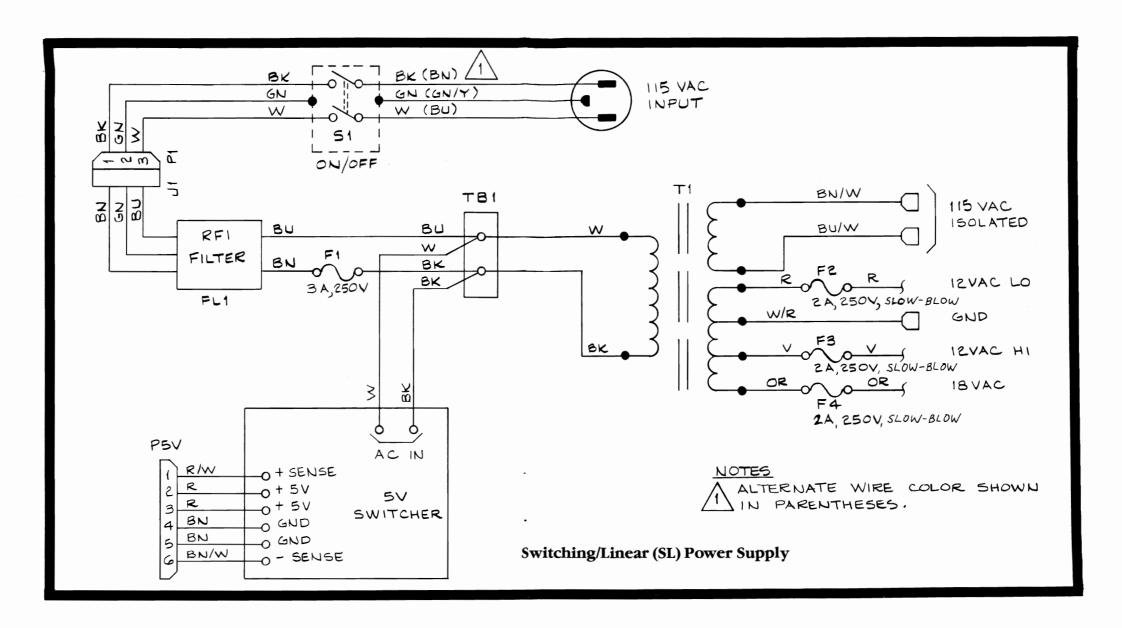
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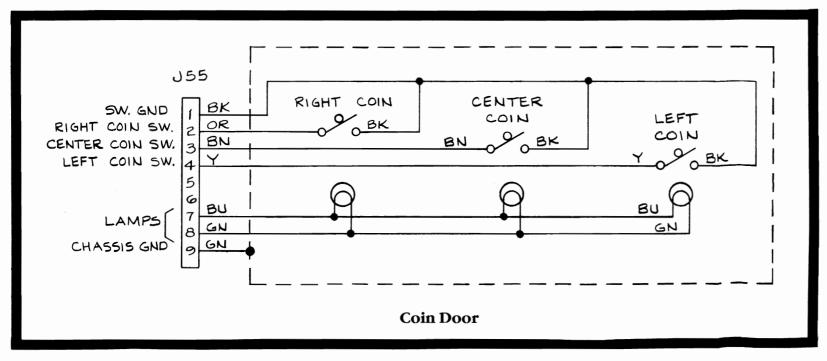


Troubleshooting Aids and Techniques

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Switching/Linear (SL) Power Supply and **Coin Door Wiring Diagrams**

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Main Microprocessor (T-11) Memory Map

	Address Bus Signal Lines	Т	Data Bus Signal Lines	
	AAAAAAAAAAAAA	i i	DDDDDDDDDDDDDD	
	11111100000000000		11111100000000000	
Octal	5432109876543210		5 4 3 2 1 0 9 8 7 6 5 4 3 2 1 0	Function and Size
		7		
000000-007777	0 0 0 0 A A A A A A A A A A A	R/W	D D D D D D D D D D D D D D	Program RAM (4KB)
010000-010436	000100 AAAAAAA	W	DDDDDDDDDDDDDD	Color RAM (144W)
II .	000100 AAAAAAA	W	d d d d	Z (Intensity)
11	000100 AAAAAAA	W	D D D D	Blue
11	0 0 0 1 0 0	W	D D D D l	Green
	000100 AAAAAAA	W	D D D D	Red
010000-010176	000100 00AAAAA	W		Motion Object Color RAM (64W
010200-010276	000100 01AAAAA	W		Alphanumeric Color RAM (16W)
010400-010776	0 0 0 1 0 0 0 1 0 0 0 A A A A 0	W	D D D D D D D D D D D D D D D D D D	Playfield Color RAM (128W)
012000	000101000 0	W	D D D D D D	Program Page O Address
012002	000101000 1		DDDDDD	Program Page 1 Address
012200	000101001	W		A/D Converter Start Strobe
012000-012002	0001010 A	R	D D D D D D D D D	A/D Converter Output
012400	000101010	W	D D	Video Memory Page Select (VMMU)
012600	00010101100	W		IRQO Clear
012640	00010101101	W		6502 Reset
012700	00010101110	W		IRQ2 Clear
012 74 0	00010101111	W		IRQ3 Clear
013000	000101100	W	D	IRQO Enable 6502 RD (Active High)
013000	000101100	W	D	IRQ1 Enable 6502 WT (Active High)
013000	000101100	W	D	IRQ2 Enable 32V (Active High)
013000	000101100	W	D	IRQ3 Enable VBLANK (Active High)
013200	000101101	W		Communications Port Write
013400	000101110			Horizontal Scroll & PF Bank 0
013600	000101111	W		Vertical Scroll & PF Bank 1
014000	000110000	R	. D	SW 6 (Active Low)
014000	000110000	R	D	SW 5 (Active Low)
014000	000110000	R	D	SW 4 (Active Low)
014000	000110000	R	D	SW 3 (Active Low)
014000	000110000	R	D	6502 Comm. Flag (Active High)
014000	000110000	R	D	T-11 Comm. Flag (Active High)
014000	000110000	R	D	SW 2 (Active Low)
014000	000110000	R	D	SW 1 (Active Low) Self-Test (Active Low)
014000	000110000		D	Communications Port Read
016000	000111000	R R/W		Alphanumerics RAM (VMMU=0) (3KW)
020000-033776	0 0 1 A A A A A A A A A A A A			ANPIC
034000-037776	001AAAAAAAAAA	R/W R/W	D D D D D D D D D D D D D D D D D D D	Motion Object RAM (VMMU=0) (1KW)
U34UUU-U37776 "	0 0 1 1 1 A A A A A A A A A A A A O	1 - 7 1		
11	0 0 1 1 1 1 A A A A A A A A A O 0 0			MOV MOPIC
II	0 0 1 1 1 A A A A A A A A A 0 1 0			MOH
u	001114444444100			MOLNK
020000-037776	0011144444444110			Playfield RAM Top (VMMU=2) (4KW)
020000-037776	001AAAAAAAAAAA	i '. i	D D D D D D D D D D D D D D D D D D D	Playfield RAM Bottom (VMMU=3) (4KW)
040000-057776	010AAAAAAAAAAA		D D D D D D D D D D D D D D D D D D D	Paged Program (Page 0) (4KW)
060000-077776	011144444444444		D D D D D D D D D D D D D D D D D D	Paged Program (Page 1) (4KW)
100000-177776	1 A A A A A A A A A A A A A A		D D D D D D D D D D D D D D D D D D	Program ROM (16KW)
100000 111110		1 1/	0 0 0 0 0 0 0 0 0 0 0 0 0	1203-2011 1011 (10111)

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Super Sprint[™] Main Microprocessor Memory Map

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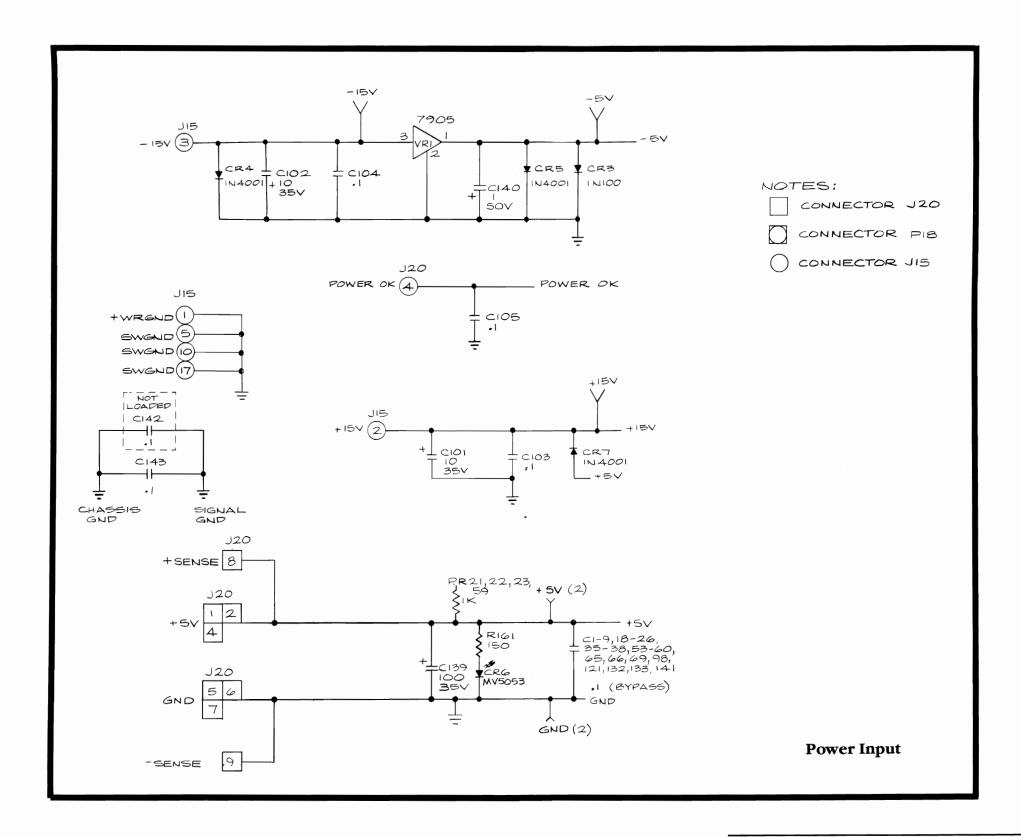
Sound Microprocessor (6502) Memory Map

	A A A A A A A A A A A A A A A A A A A	DDDDDDDD	
Hexa-	11111100000000000	00000000	
decimal	5 4 3 2 1 0 9 8 7 6 5 4 3 2 1 0	R/W 76543210	Function and Size
		1 19 11 1 1 0 0 1 0 2 2 0 1	
0000-0FFF	0 0 0 0 A A A A A A A A A A A A	R/W DDDDDDDD	Program RAM (4KB)
1000-1 7 FF	0 0 0 1 0 A A A A A A A A A A	r/w D D D D D D D D	EEROM (2KB)
1800-180F	0 0 1 1 0 0 0 A A A A	R/W DDDDDDDD	POKEY 1 (16B)
1810-1813	00 11 001 AA	R DDDDDDDD	LETA
1830-183F	0 0 1 1 0 1 1 A A A A	R/W DDDDDDDD	POKEY 2 (16B)
1840	0 0 1 1 1 0 0	R D	T-ll Talk (Active High)
1840	0 0 1 1 1 0 0	R D	6502 Talk (Active High)
1840	0 0 1 1 1 0 0	R D	TI READY (Active High)
1840	0 0 1 1 1 0 0	R D	
1840	0 0 1 1 1 0 0	R D	Self-Test Switch (Active Low)
1840	0 0 1 1 1 0 0	R D	Auxiliary Coin Switch (Active Low)
1840	0 0 1 1 1 0 0	R	Left Coin Switch (Active Low)
184 0	0 0 1 1 1 0 0	R D	Right Coin Switch (Active Low)
1850-1851	0 0 1 1 1 0 1 A	R DDDDDDDD	Yamaha Sound Chip
1860	0 0 1 1 1 1 0	R DDDDDDDD	Communications Port Read
1870	0 0 1 1 1 1 1 0 0 0	w DDDDDDDD	TI Data
1872-1873	0 0 1 1 1 1 1 1 0 0 1 A	w	TI Write Enable
1874	0 0 1 1 1 1 1 0 1 0	w טססססססס	Communications Port Write
1 87 6	0 0 1 1 1 1 1 0 1 1	w D	Right Coin Counter (Active High)
1876	0 0 1 1 1 1 1 0 1 1	w D	Left Coin Counter (Active High)
1878	0 0 1 1 1 1 1 1 0 0	w	IRQ Clear
187A	0 0 1 1 1 1 1 1 0 1	w	Yamaha Mixer
187A	0 0 1 1 1 1 1 1 0 1	W DD	POKEY Mixer
187A	0 0 1 1 1 1 1 1 0 1	w ddd	TI Sound Mixer
187C	0 0 1 1 1 1 1 1 1 0	w D	LED 1
187C	0 0 1 1 1 1 1 1 1 0	w D	LED 2
187C	0 0 1 1 1 1 1 1 1 0	W D	LETA Resolution
187C	0 0 1 1 1 1 1 1 0	w	TI Frequency Select
187E	0 0 1 1 1 1 1 1 1 1	w D	Sound Enable (Active High)
4000-7FFF	0 1 A A A A A A A A A A A A A	R DDDDDDDDD	Program ROM (16KB)
8000-FFFF	1 A A A A A A A A A A A A A A A	R DDDDDDDD	Program ROM (32KB)

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Super Sprint[™] Sound Microprocessor Memory Map

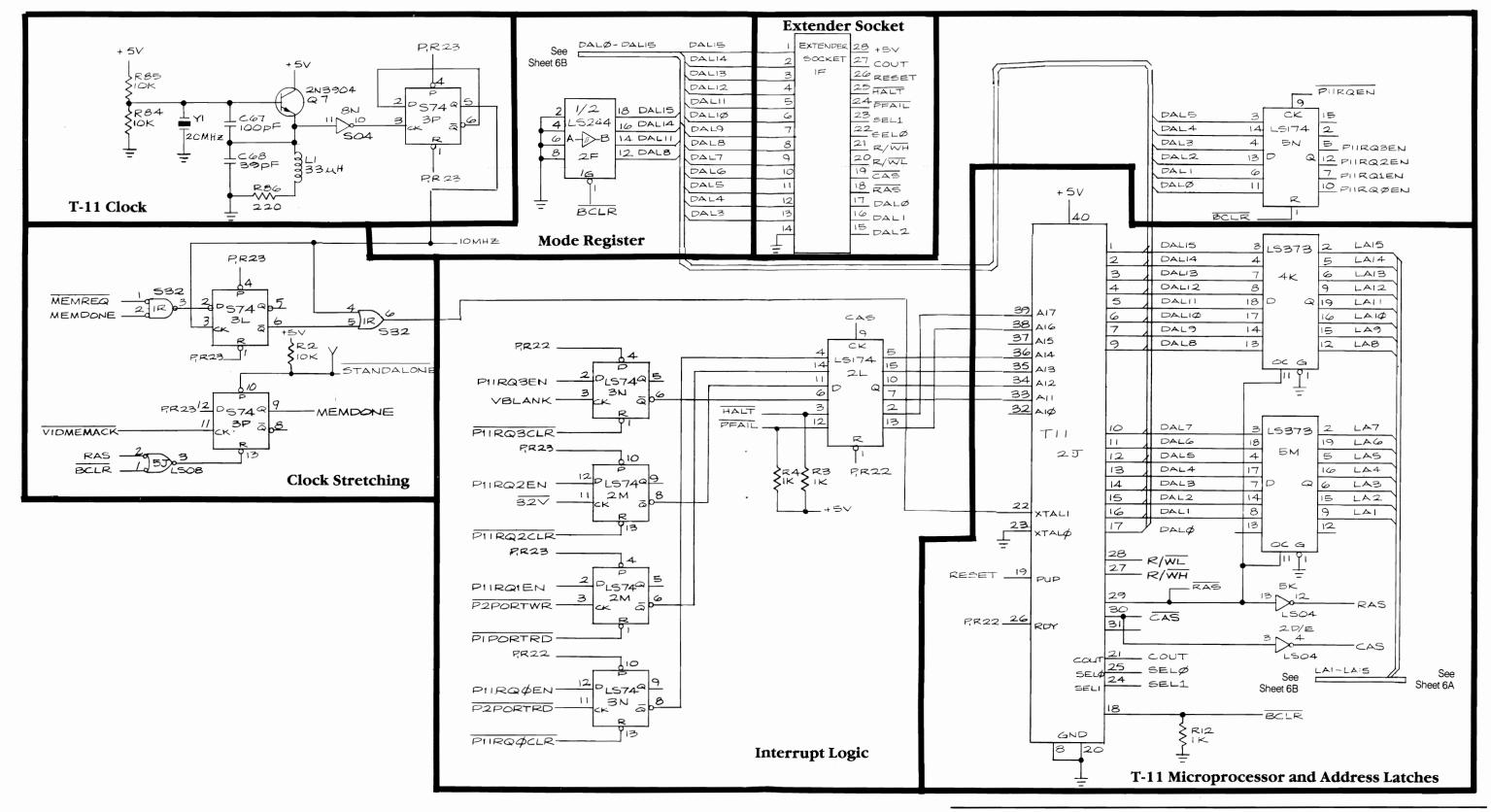


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Super Sprint™ CPU PCB Schematic Diagram

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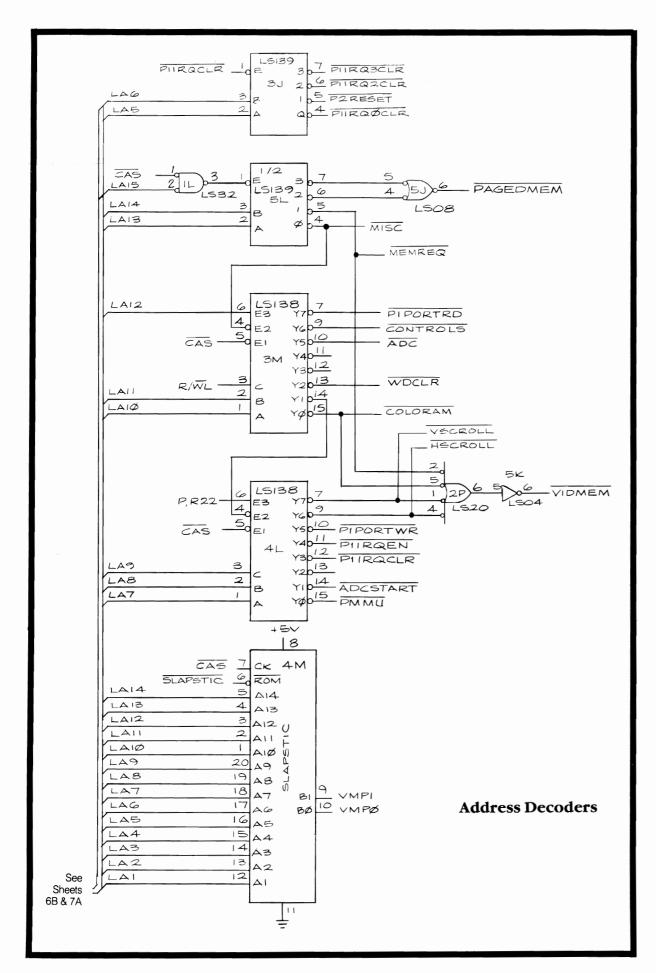


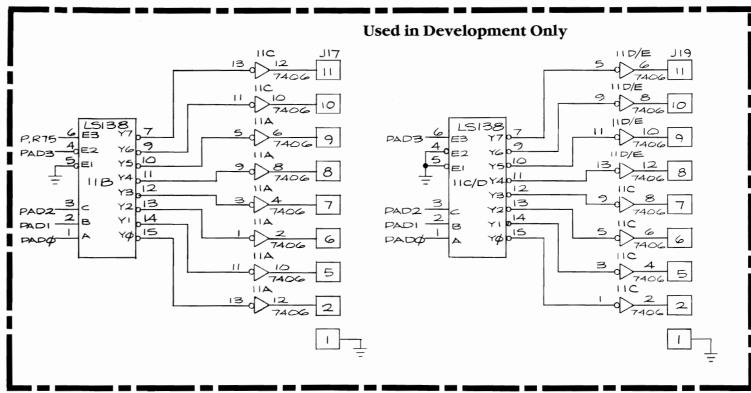
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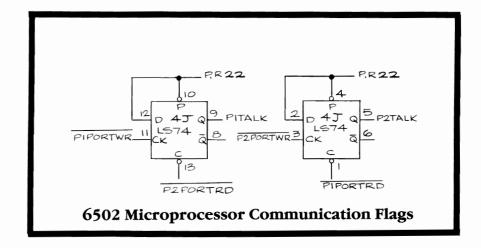


Super Sprint™ CPU PCB Schematic Diagram

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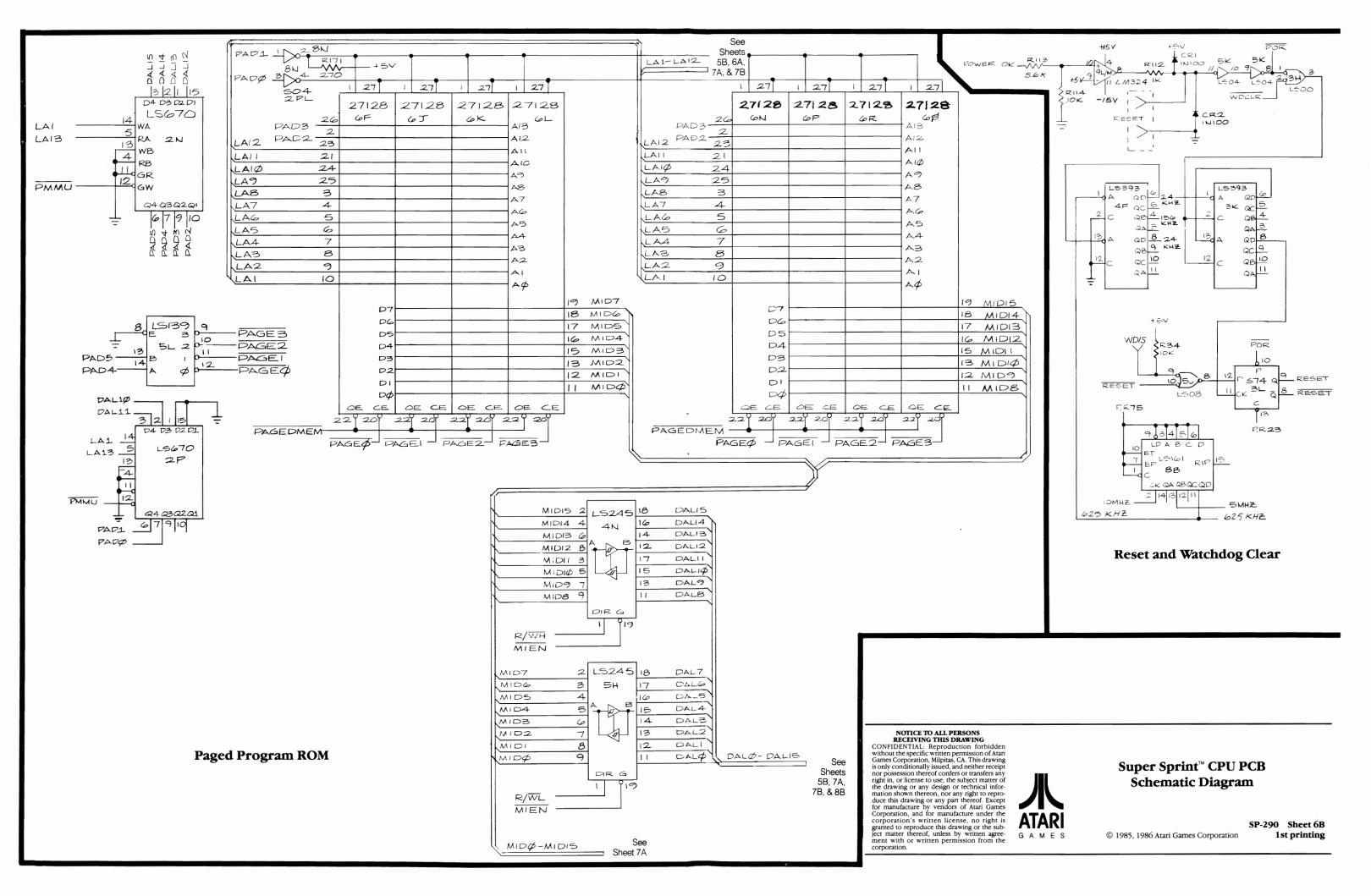


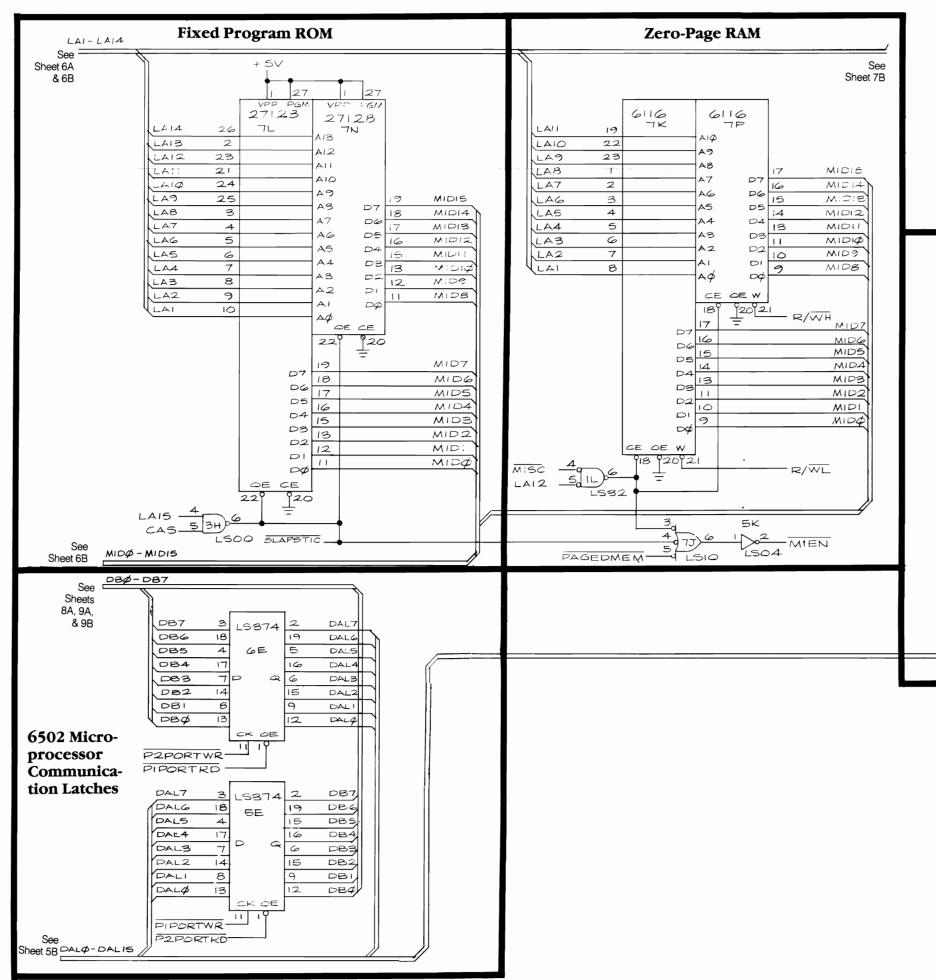
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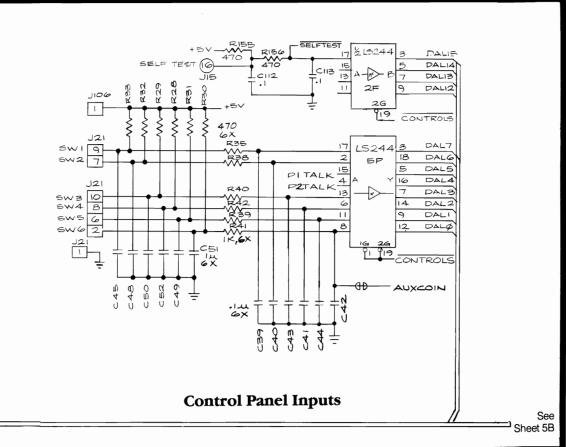


Super Sprint[™] **CPU PCB Schematic Diagram**

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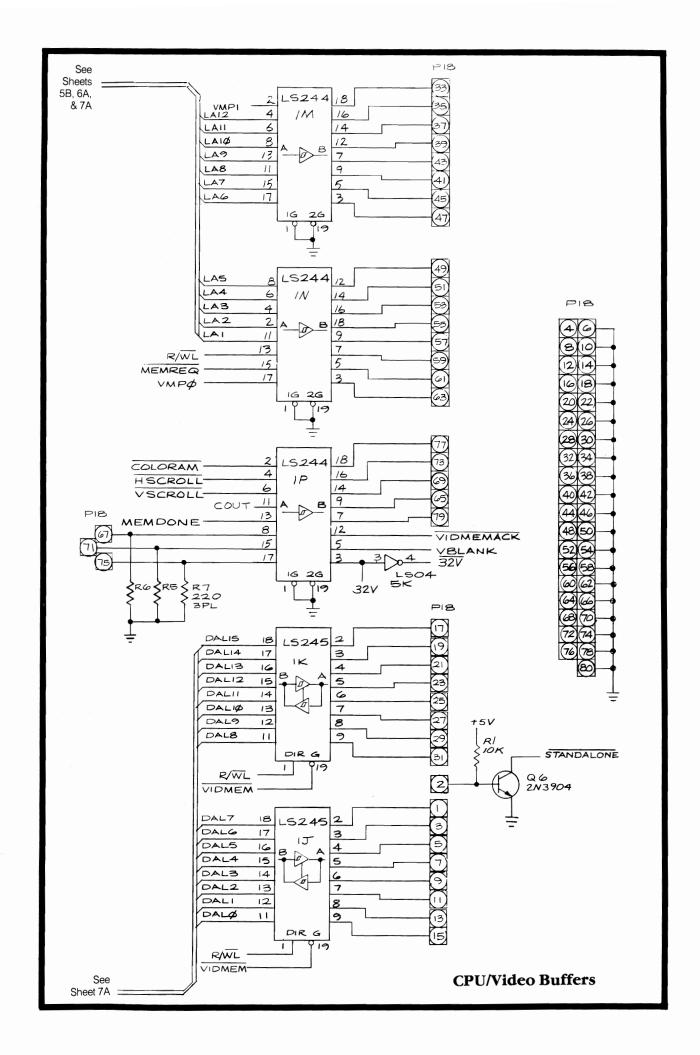


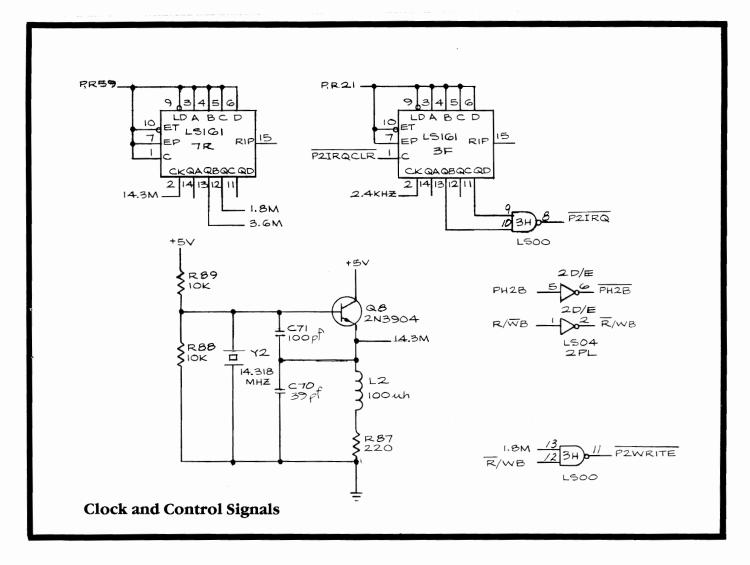
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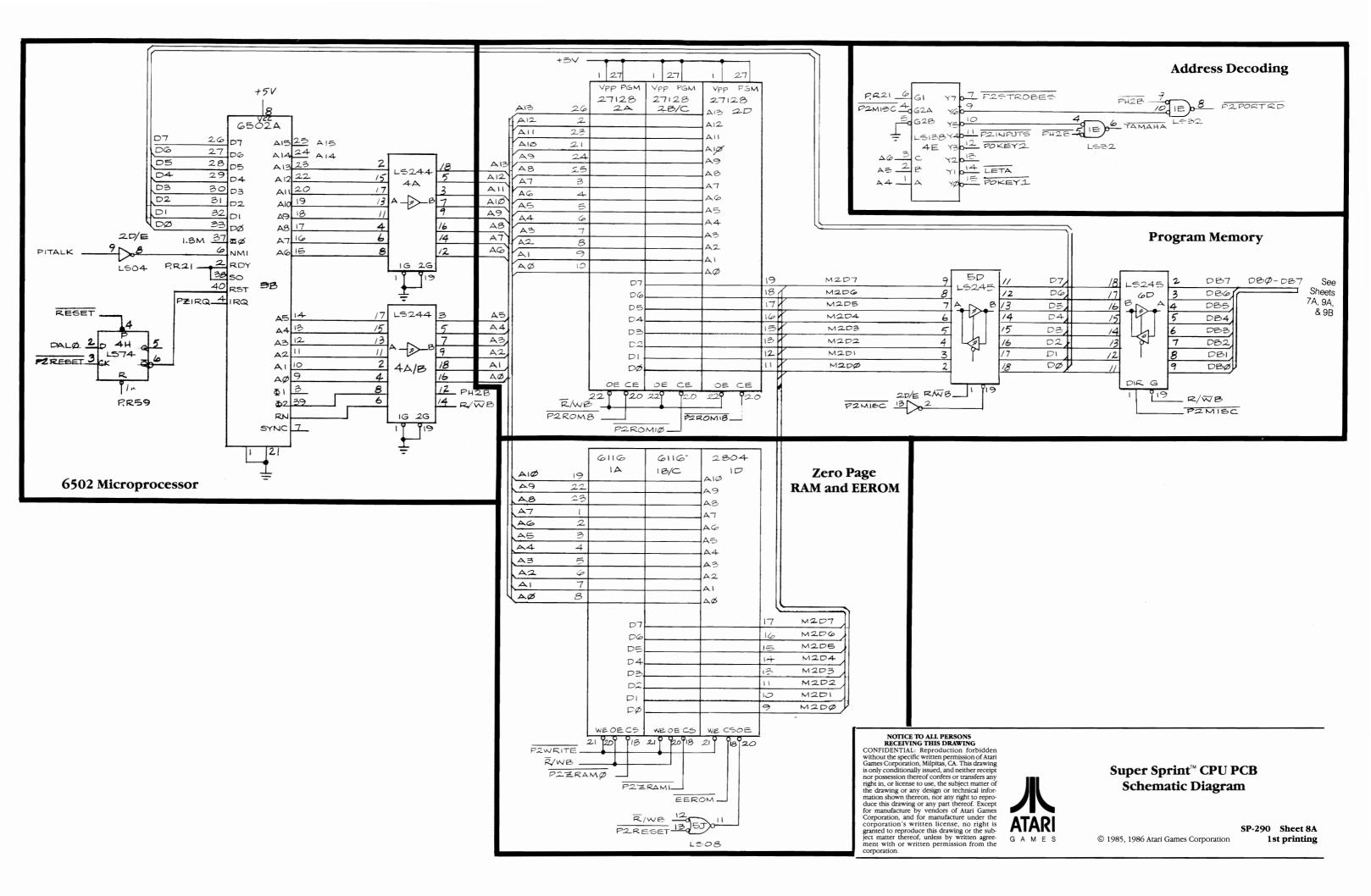
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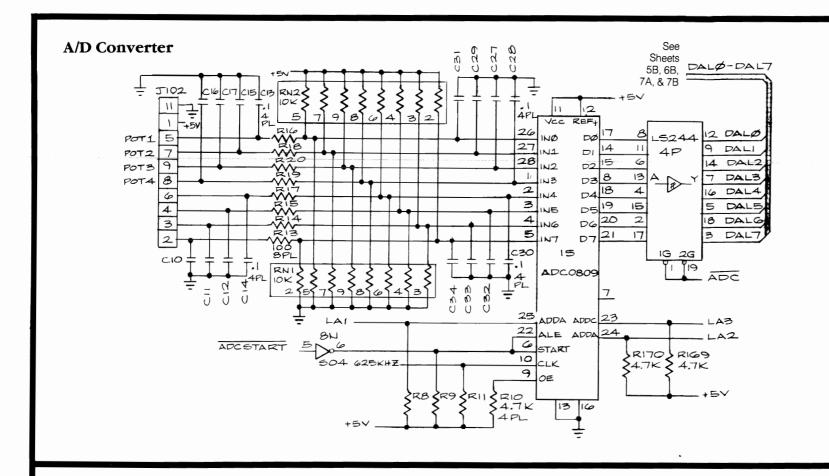


Super Sprint™ CPU PCB Schematic Diagram

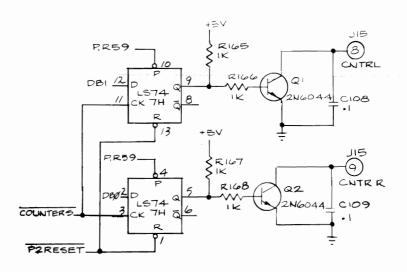
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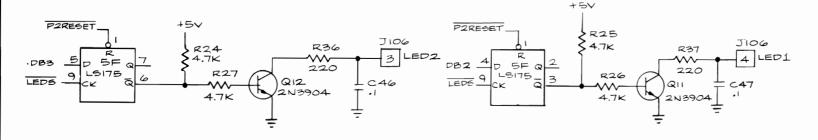




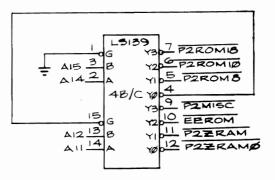
Coin Counters



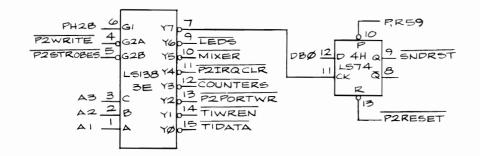
LED Drivers



Address Decoding



Address Decoding

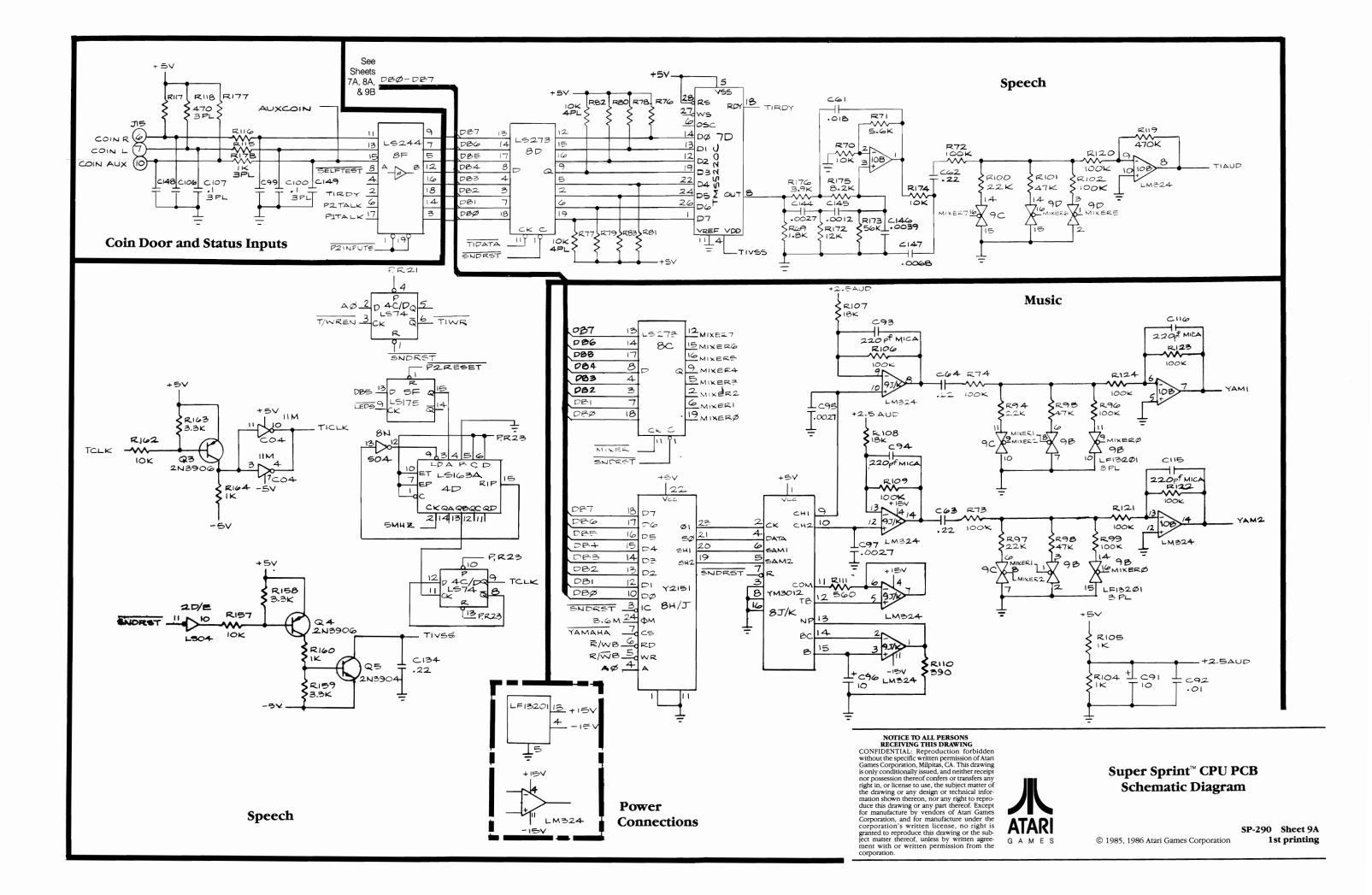


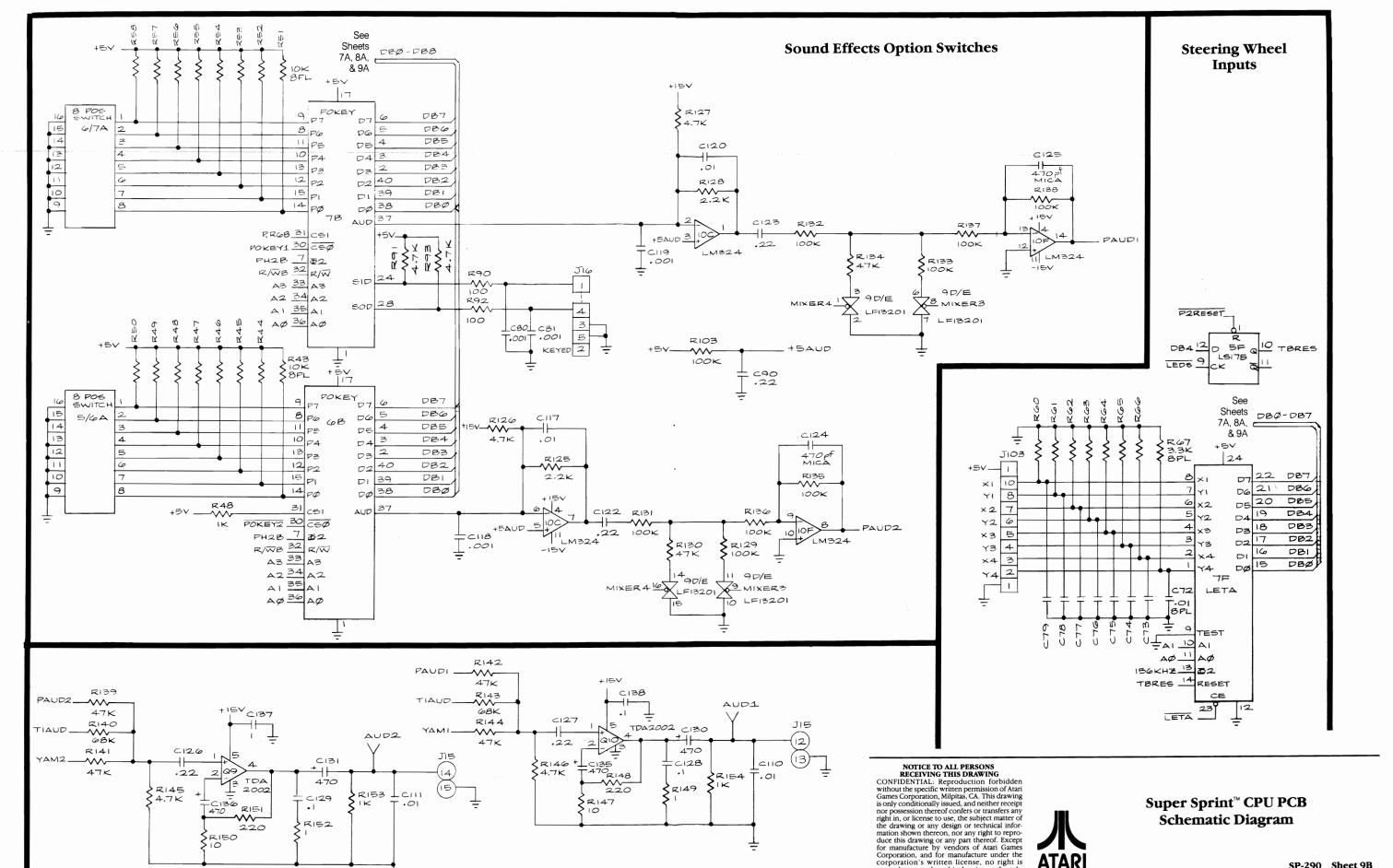
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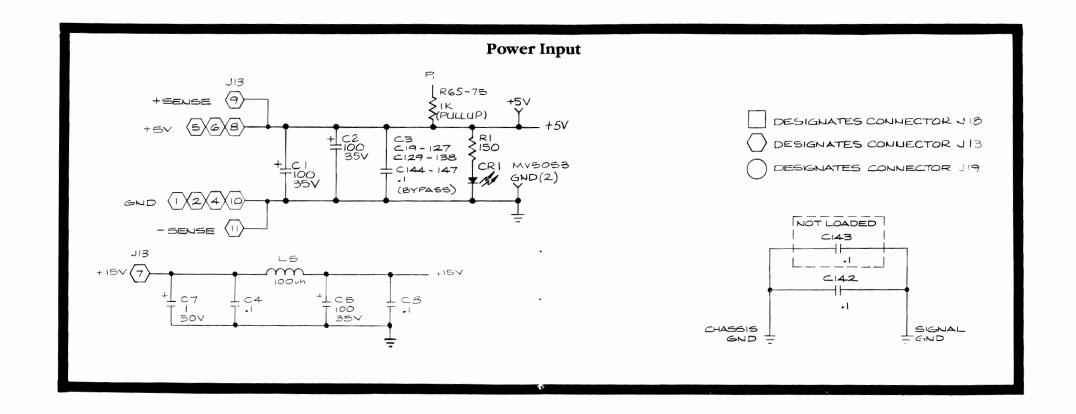




Audio Output Drivers

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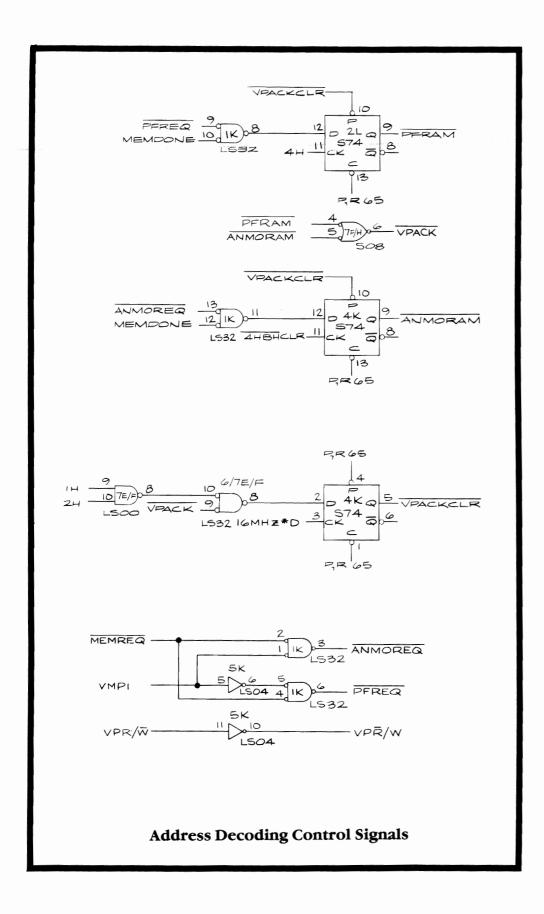


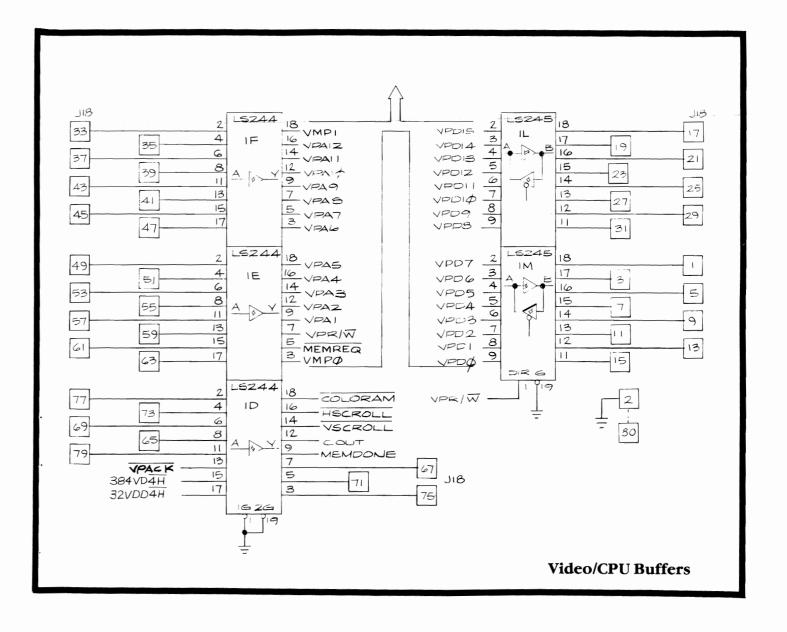
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Super Sprint™ Video PCB Schematic Diagram

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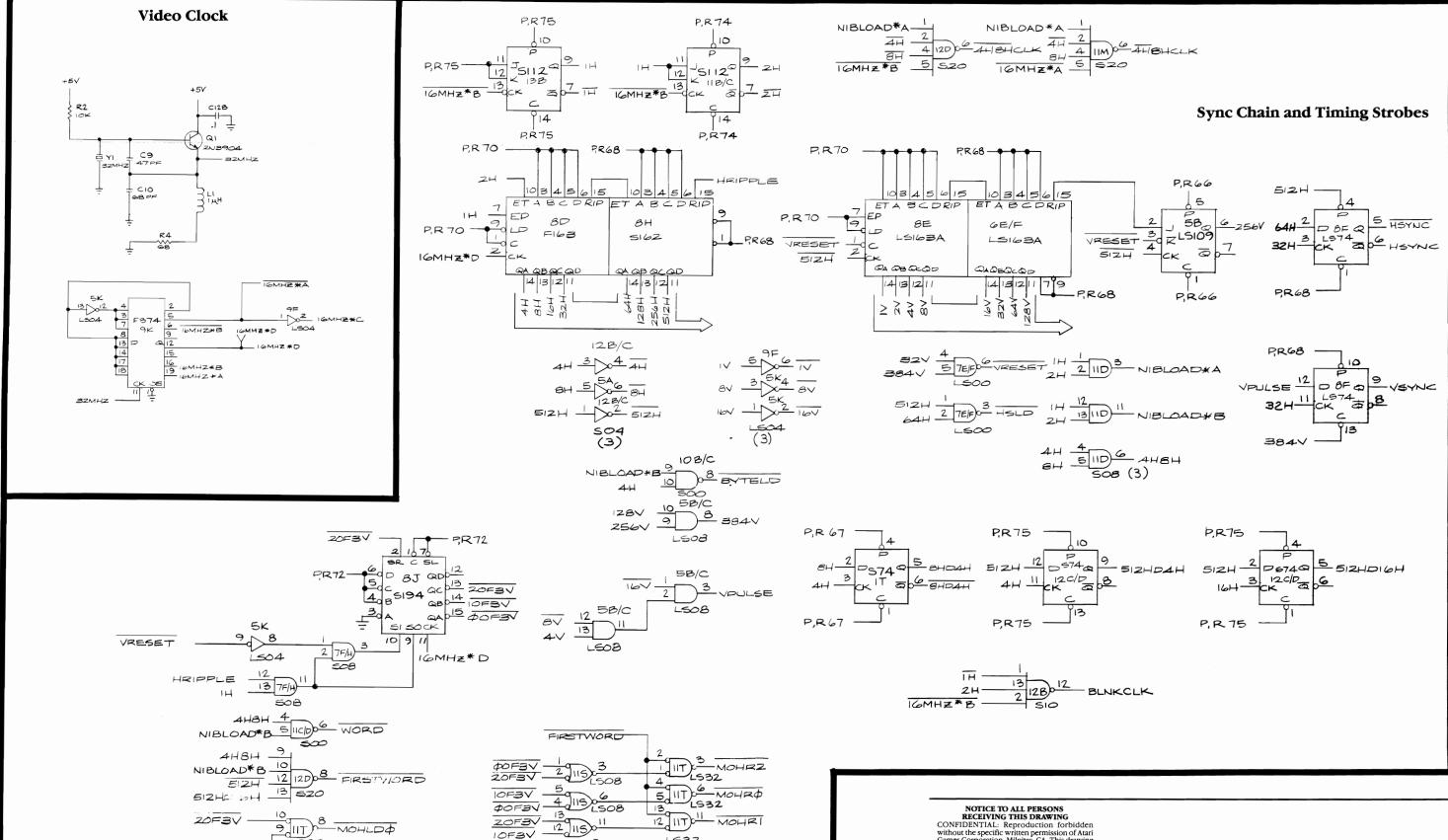


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L532

10F3V

L532

2 11R 03

13 11R D-

L532

LS32

MOHLDI

MOI+LDZ

ΦOF3V-

10=3V

WORD

MOHLDIS

13 2T

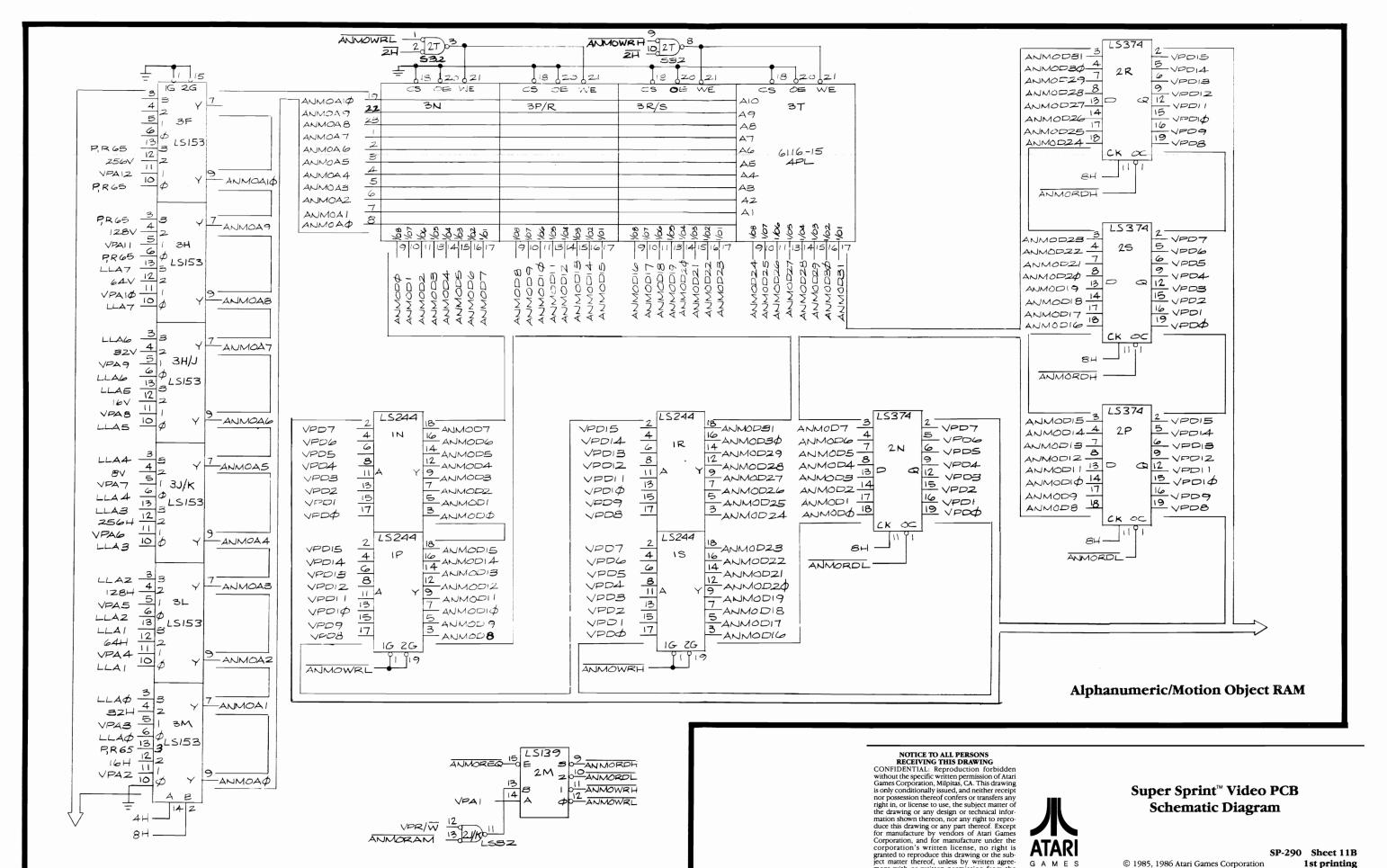
L508

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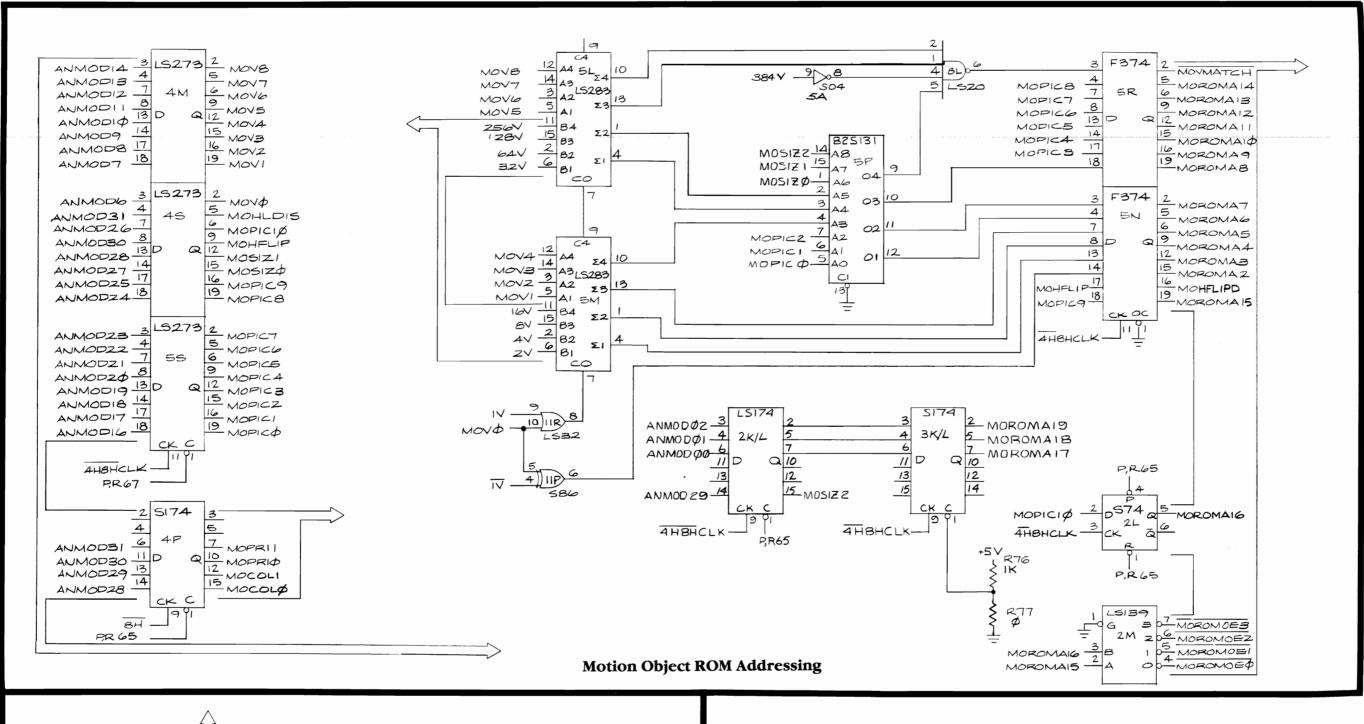
SP-290 Sheet 11A 1st printing

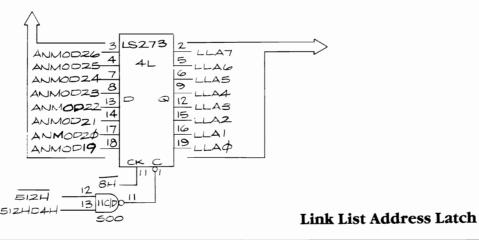


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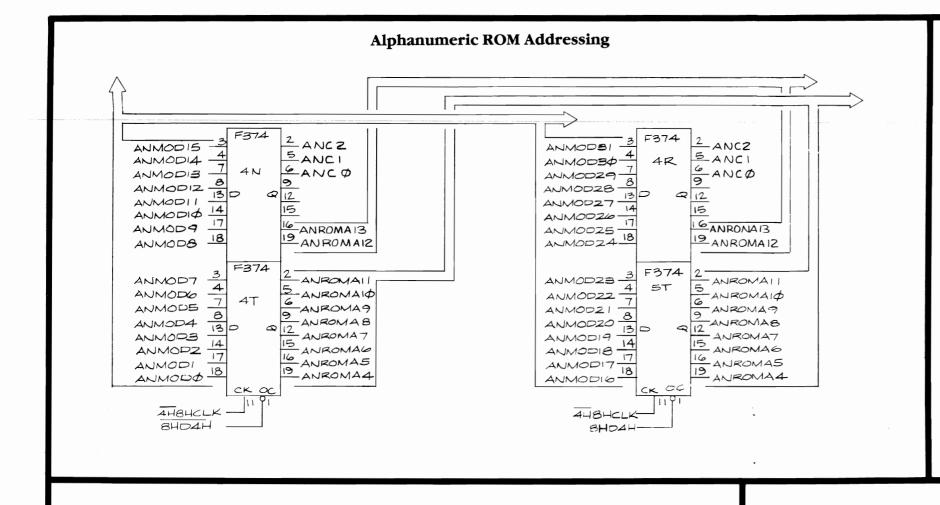
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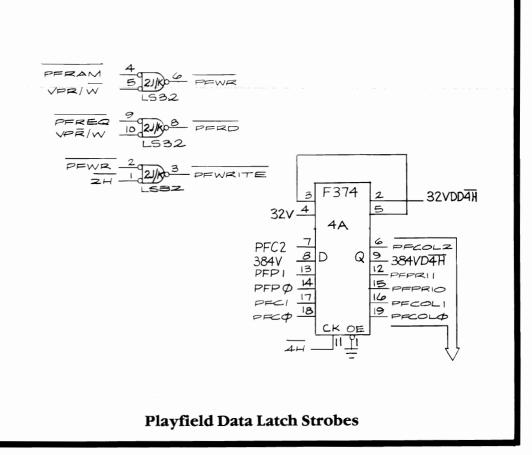
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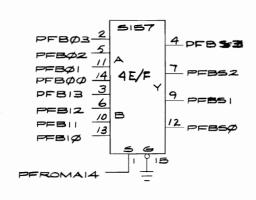


Super Sprint™ Video PCB Schematic Diagram

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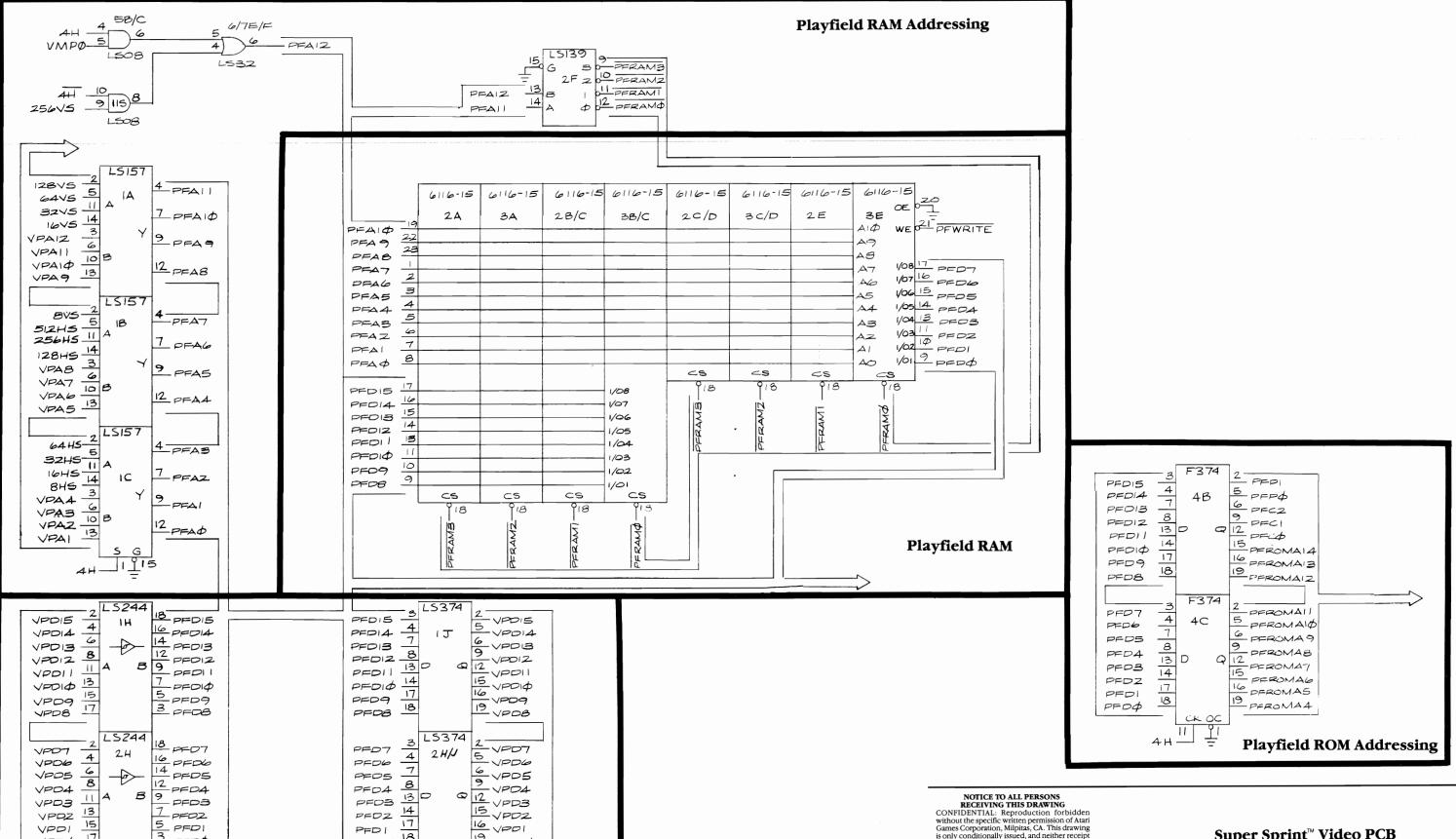
Playfield Bank Select

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19 VPDØ

18

4H —

PFDØ

PERD

17

PEDO

Playfield Data Latches

VPDØ

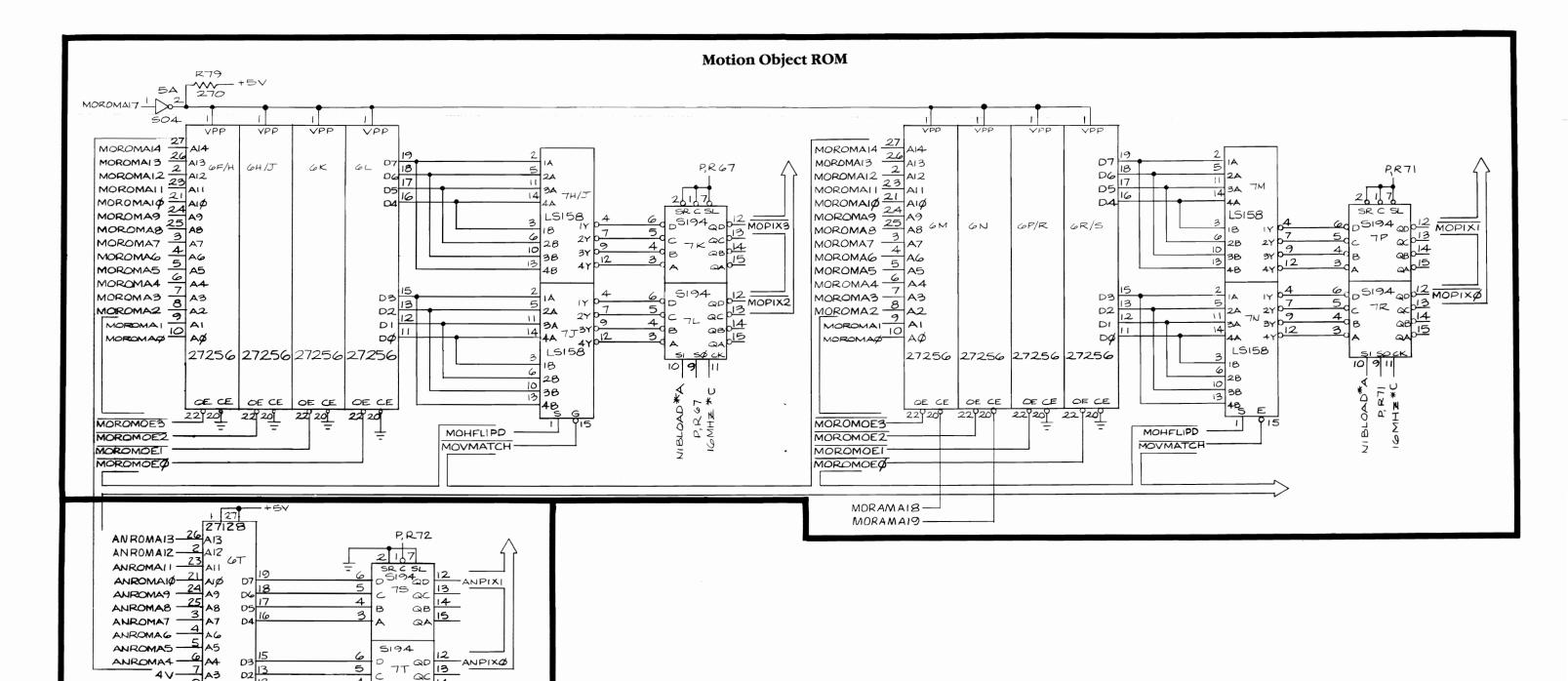
PFWR

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Super Sprint™ Video PCB Schematic Diagram

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14_

QB QA

В

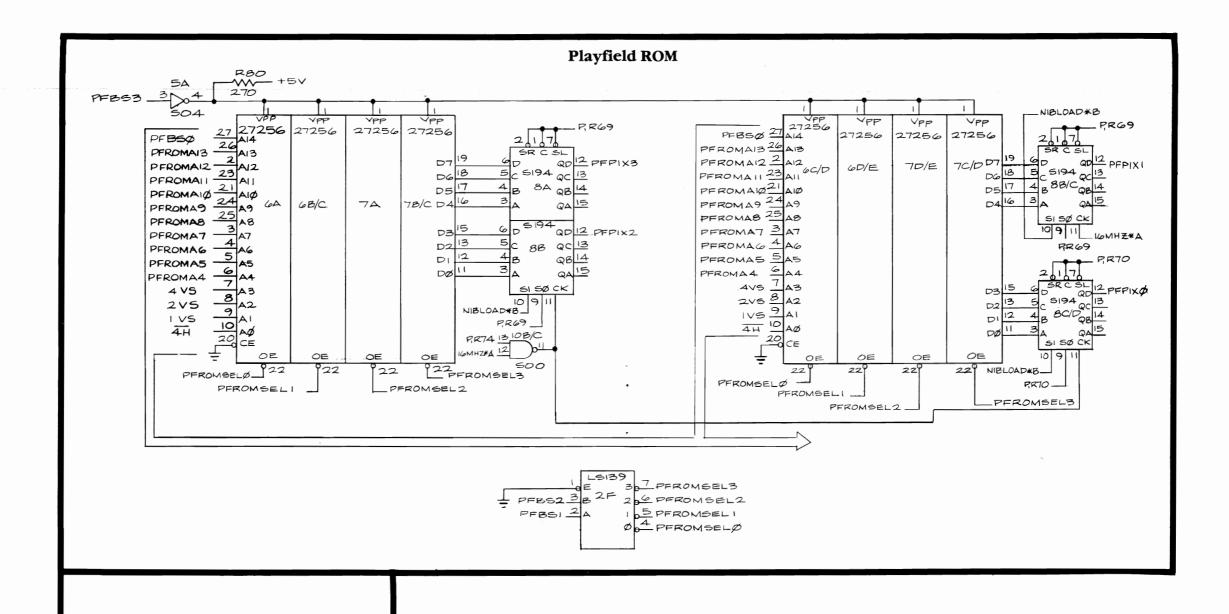
Alphanumeric ROM

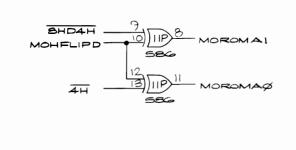
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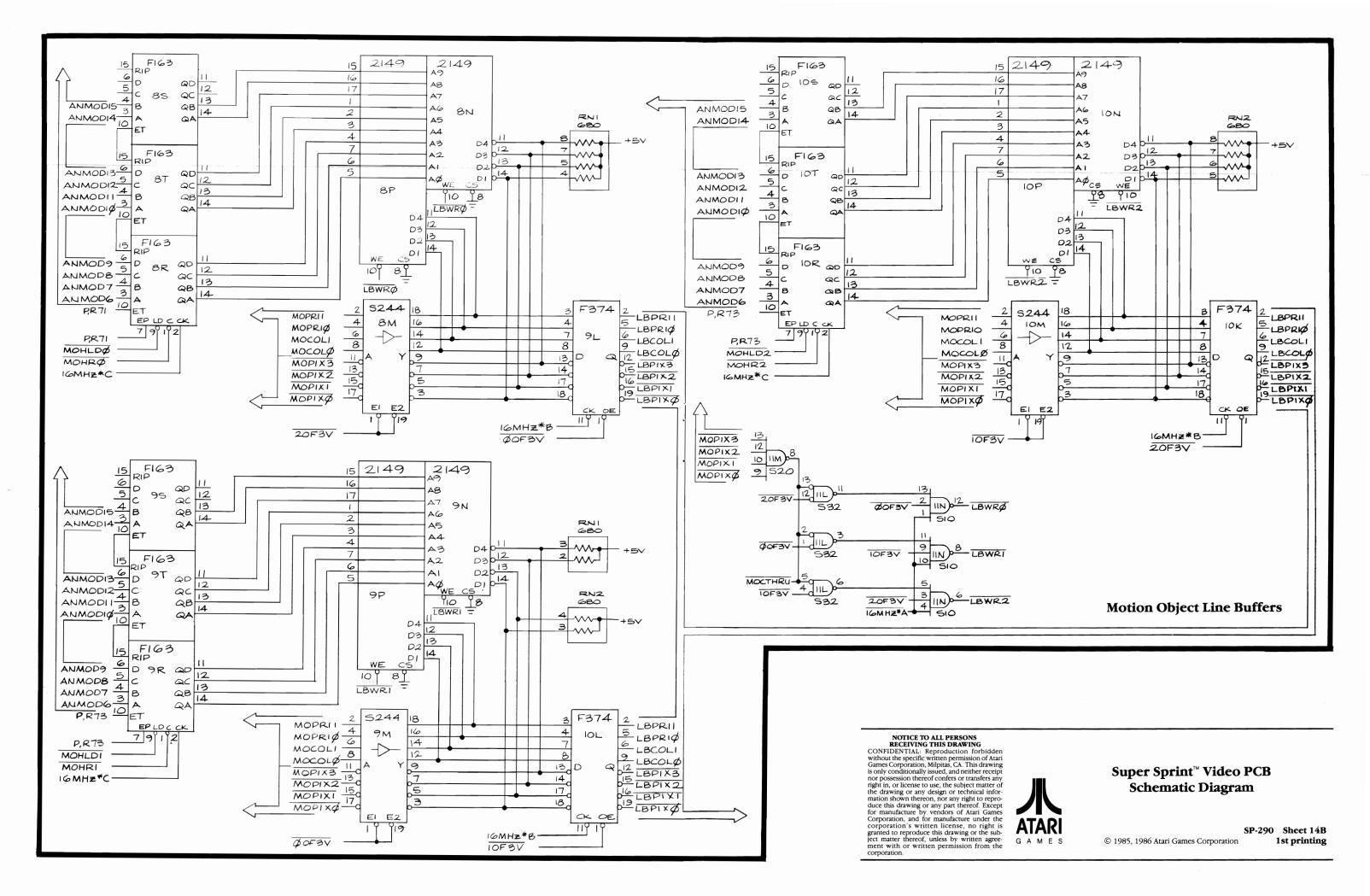
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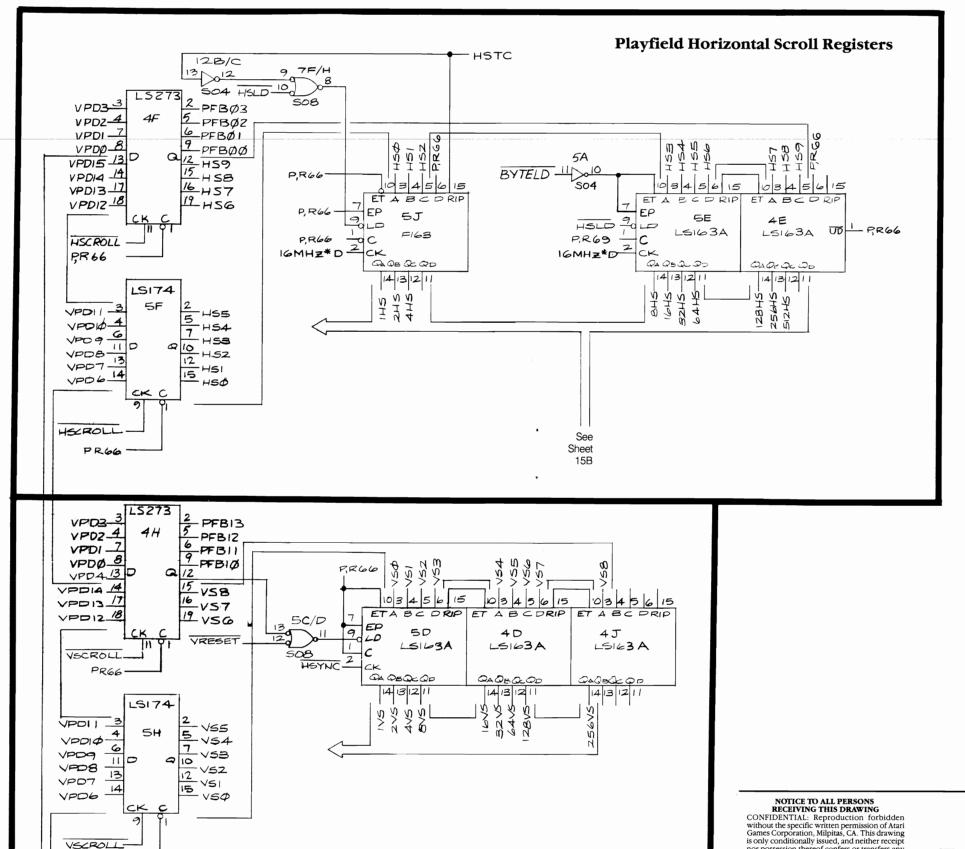
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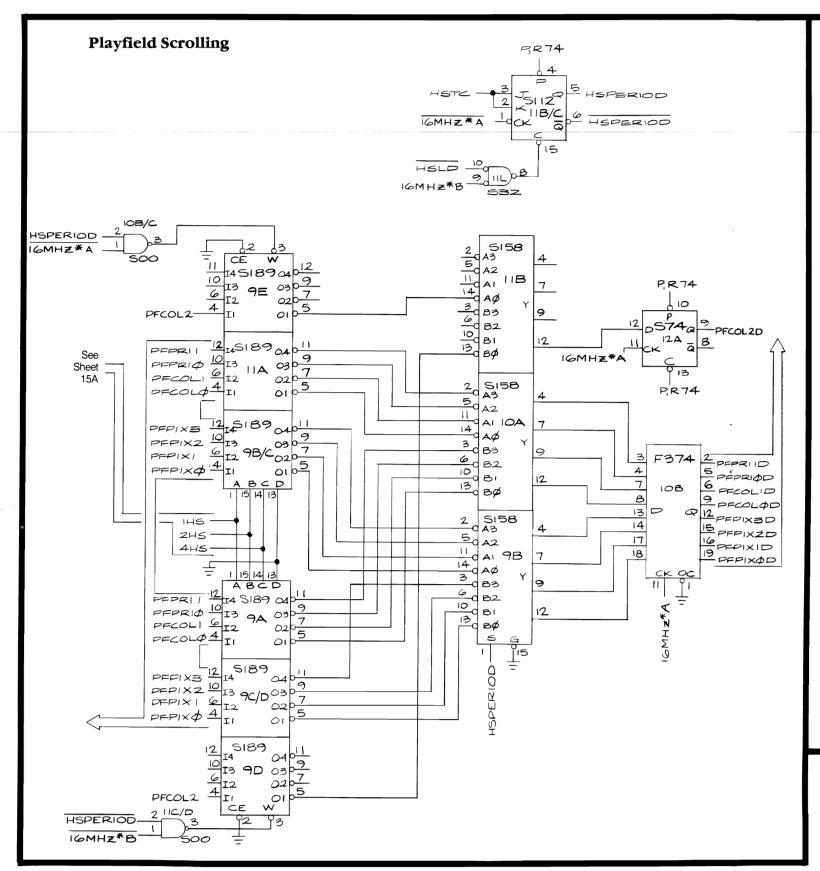
Playfield Vertical Scroll Registers

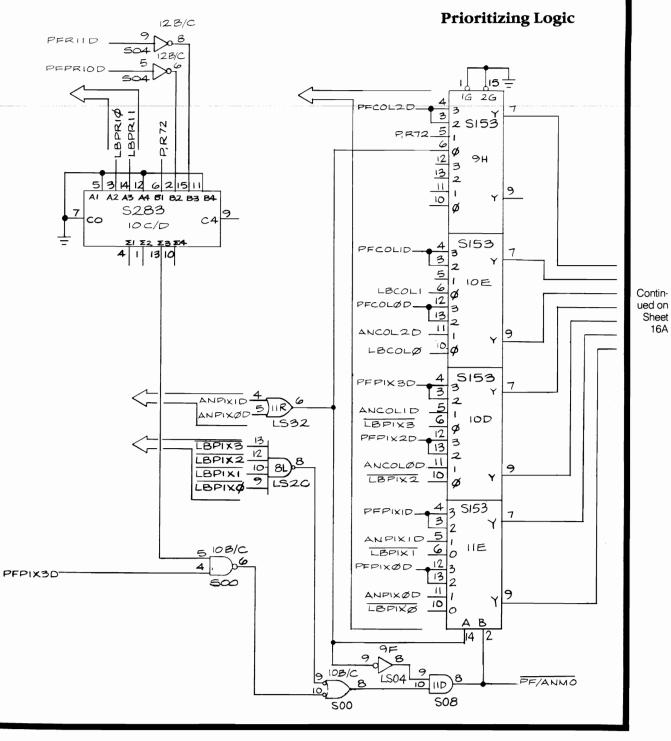
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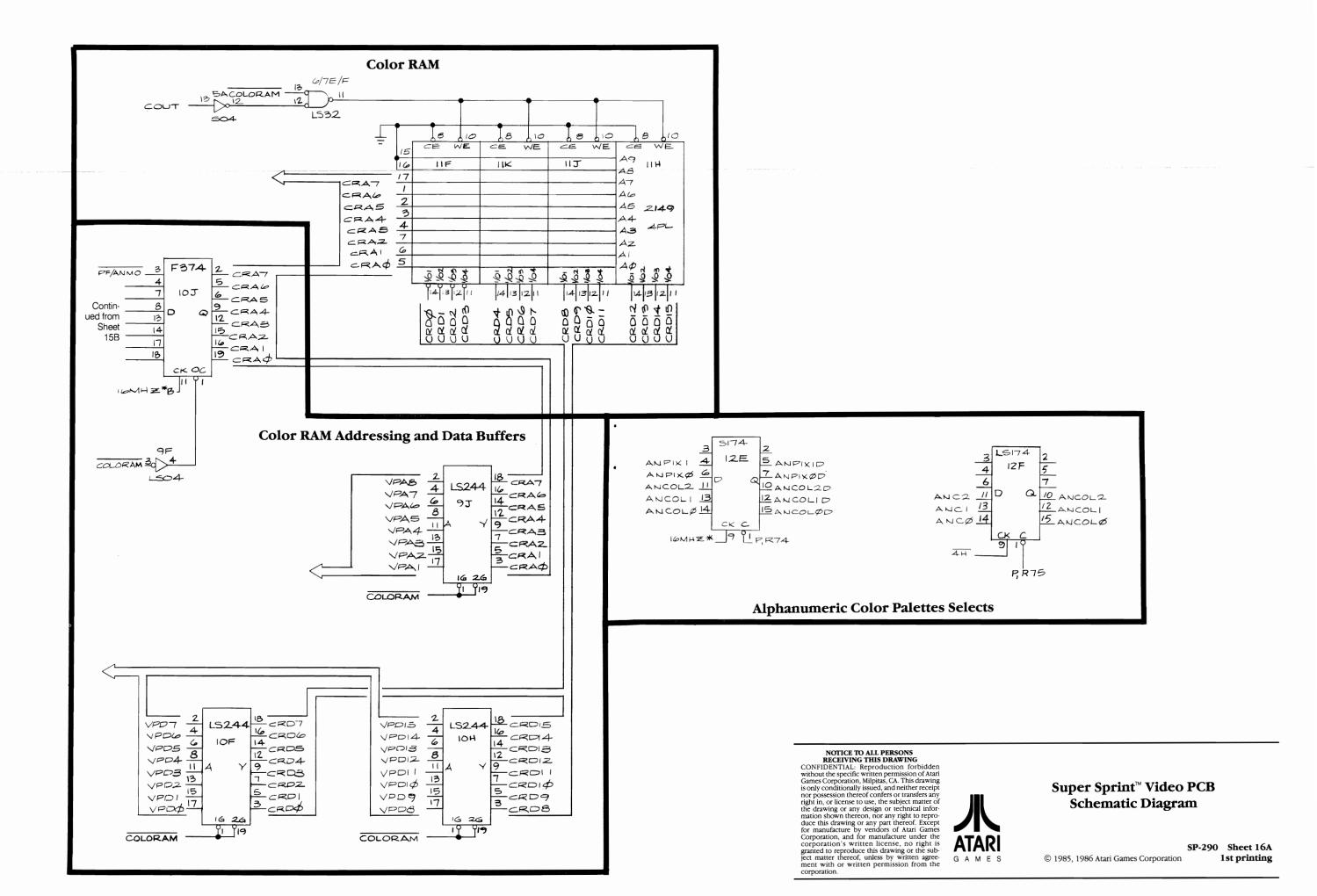


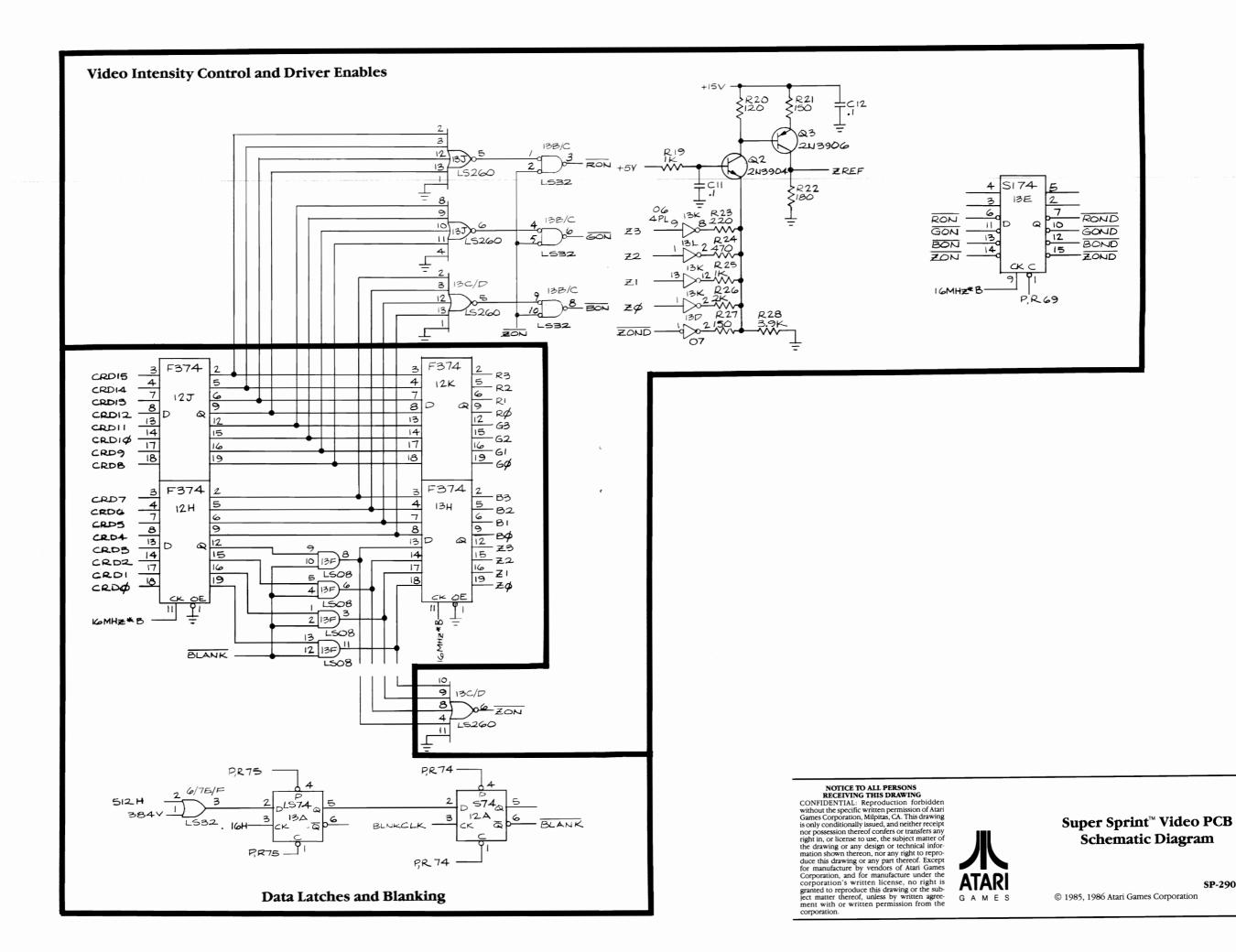
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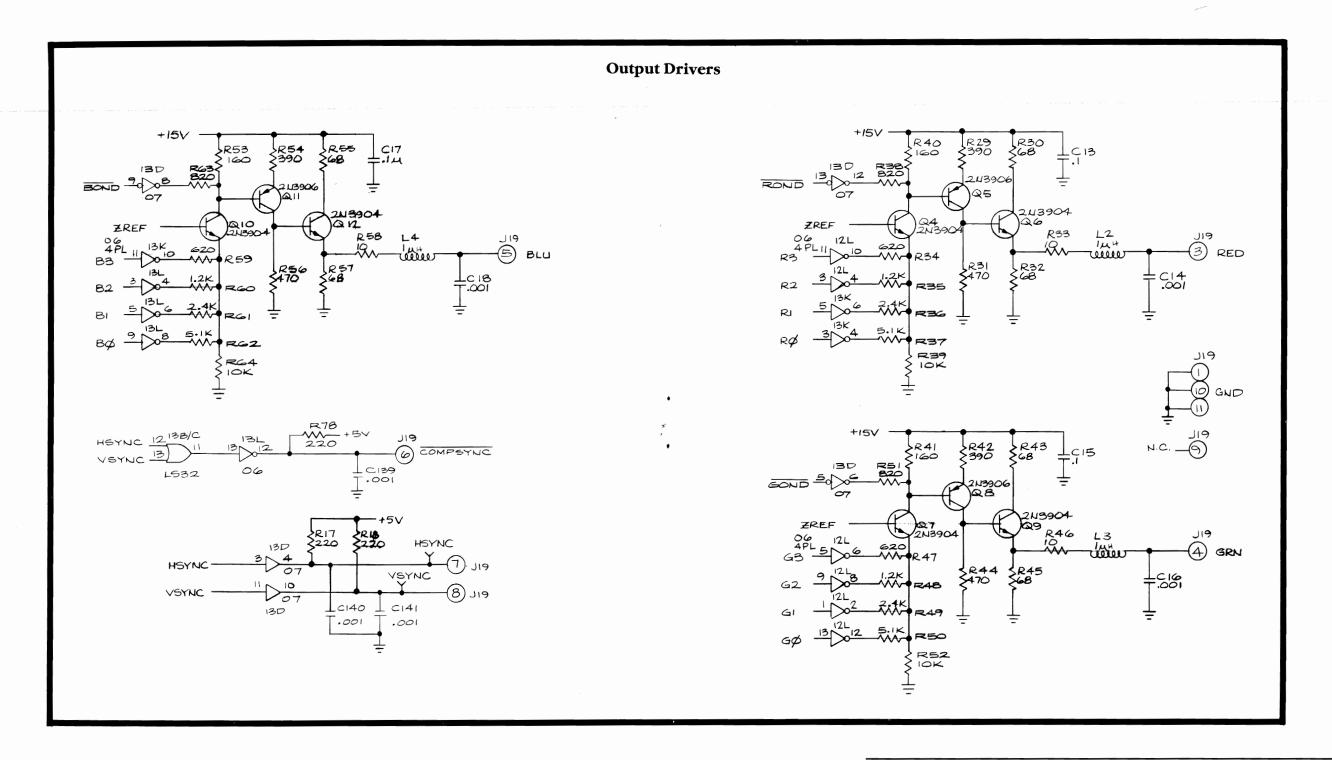
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